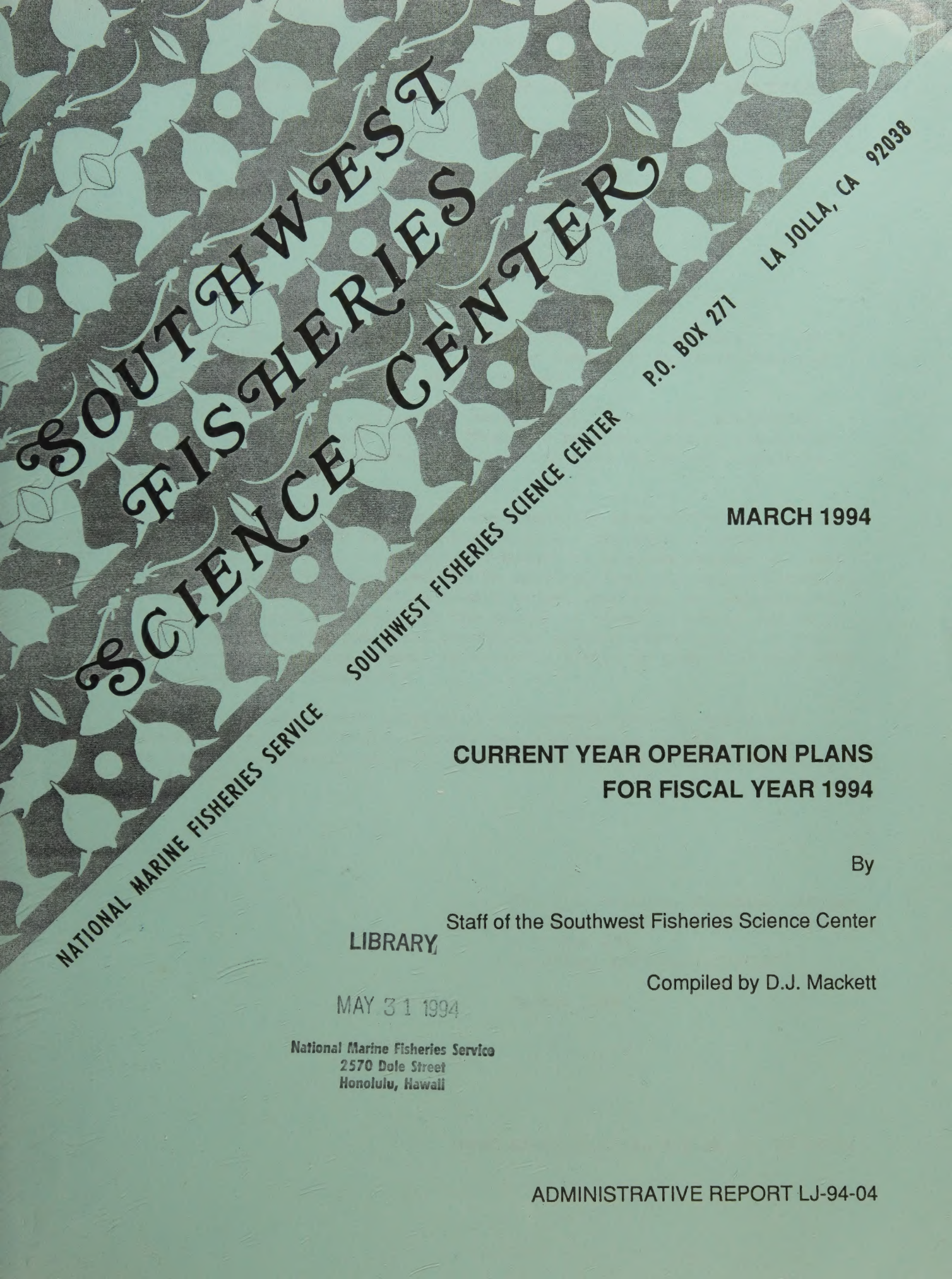




SOUTHWEST FISHERIES SCIENCE CENTER

NATIONAL MARINE FISHERIES SERVICE

SOUTHWEST FISHERIES SCIENCE CENTER

P.O. BOX 271

LA JOLLA, CA 92038

MARCH 1994

CURRENT YEAR OPERATION PLANS FOR FISCAL YEAR 1994

By

Staff of the Southwest Fisheries Science Center

LIBRARY

Compiled by D.J. Mackett

MAY 31 1994

National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii

ADMINISTRATIVE REPORT LJ-94-04

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

SOUTHWEST FISHERIES SCIENCE CENTER

CURRENT YEAR OPERATING PLANS

FISCAL YEAR 1994

This report presents the FY 1994 Current Year Operating Plans (CYOPs) of the Southwest Fisheries Science Center. Budget summaries for each Task and for each office and laboratory are also presented.

The CYOPs set out the objectives, methodology, resources, activities, events and milestones for each project (Task) to be undertaken by the Center during the fiscal year. In several cases, two or more Tasks may constitute elements of a larger program.

The CYOPs are plans and, as such, represent the best estimates that the staff could make at the time of their preparation. The user is cautioned to use the data only as estimates; details of budget or program changes put into effect since the plans were prepared can be obtained from the Center Director. This fiscal year is unique in that a severe budget reduction was experienced by the Center; the reduction requires the Center to severely reduce effort or cancel work toward several important previously planned milestones. In this case, the affected milestone, event, or activity listed on page 4 of each CYOP is marked "canceled" or "reduced."

Finally, the information concerning detailed allocations among the budget classes (labor, contracts, travel, etc.) presented in this report should be handled cautiously so as to safeguard the government's competitive procurement process.

David J. Mackett, Planning Officer
Southwest Fisheries Science Center
P.O. Box 271
La Jolla, California 92038

March, 1994



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NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

FMC: SWC

PAGE 1 OF 2

WOP EF#	TITLE	TASK LEADER	FTE	AMOUNT (\$K)
50A	CENTER SUPPORT	NEAL	7.0	579.9
50B	PERSONNEL PROGRAMS	NEAL	1.0	28.7
50C	LA JOLLA GENERAL SUPPORT	NEAL	8.0	630.1
50D	PACIFIC TUNA & BILLFISH (JIMAR)	NEAL	.0	1710.0
50E	MAHIMAHU EXPORT (PPA)	NEAL	.0	452.2
50F	HAWAII STOCK MANAGEMENT (PPA)	NEAL	.0	474.0
51	SCIENTIFIC SERVICES	NEAL	7.5	345.3
52	INFORMATION TECHNOLOGY SERVICES	ROLL	6.0	339.5
		Subtotal	29.5	4559.7
50	SENIOR SCIENTIST	PERRIN	2.0	138.9
		Subtotal	2.0	138.9
01	COASTAL E. PAC. POP. BIOL. FISHES	HUNTER	7.0	409.1
04	FISHERIES ENVIRONMENTAL INVEST.	LYNN	4.4	285.6
08	ECOLOGY & SYSTEMATICS OF FISHES	MOSER	5.8	291.4
09	COASTAL & PAC. FISH. RES. INVEST.	CHARTER	8.0	433.1
00	SURVEY SYSTEMS DEVELOP & EVALUATION	SMITH	4.0	251.1
00	COMM. & REC. FISH. RES. FOR MGMNT.	JACOBSON	5.5	315.7
		Subtotal	34.7	1986.0
01	TUNA & LG. PEL. STOCK INVESTIGATIONS	BARTOO	4.0	301.3
01	MULTISPECIES DATA COLLECTION & EVAL.	COAN	9.0	426.0
01	OCEANIC FISHERIES EVALUATION	SAKAGAWA	2.0	162.1
01	PELAGIC ECOSYSTEM MODELLING	KLEIBER	2.0	133.7
		Subtotal	17.0	1023.1
00	MARINE MAMMALS DIVISION CHIEF	BROWNELL	2.0	130.6
00	DOLPHIN STOCK ASSESSMENT PROGRAM	GERRODETTE	4.1	191.6
00	POPULATION IDENTIFICATION PROGRAM	DIZON	7.0	389.2
00	DOLPHIN ECOLOGY PROGRAM	REILLY	5.0	269.5
00	COASTAL MARINE MAMMAL PROGRAM	BARLOW	3.0	172.6
00	DOLPHIN SAFE TECHNOLOGIES PROGRAM	EDWARDS	6.6	452.4
		Subtotal	27.7	1605.9
01	ANTARCTIC ECOSYSTEM RESEARCH GROUP	HOLT	6.9	1225.9
		Subtotal	6.9	1125.9
00	HONOLULU LAB DIRECTOR'S OFFC. & ADMIN	LAURS	6.7	540.7
01	INFO TECH, SCIEN., & LIBRARY SVCS.	TIEMAN	8.8	407.9
00	PELAGIC RESOURCE MODELING	WETHERALL	2.8	197.7
01	PELAGIC FISHERY DYNAMICS	BOGGS	2.0	134.6
02	PELAGIC STOCK ASSESSMENT PROGRAM	SKILLMAN	4.0	262.2
00	INSULAR STOCK ASSESSMENT	POLOVINA	4.5	203.5
01	INSULAR HABITAT PROGRAM	DEMARTINI	5.0	235.5
02	INSULAR ECOSYSTEM & OCEANOGRAPHY	POLOVINA	5.0	296.0
00	FISHERY MONITORING & ECONOMICS	POOLEY	7.6	366.6
01	WPACFIN	HAMM	2.3	111.7
02	FISHERY DATA MANAGEMENT	HAMM	2.9	155.2
00	MARINE MAMMAL RESEARCH: MONKSEAL	GILMARTIN	4.6	468.7
05	MARINE TURTLE RESEARCH	BALAZS	2.1	194.1
		Subtotal	58.3	3574.4

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

FMC: SWC

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YOP EF#	TITLE	TASK LEADER	FTE	AMOUNT (\$K)
00	TIBURON LABORATORY ADMINISTRATION	MACCALL	6.3	314.7
11	GROUND FISH ANALYSIS	LENARZ	8.6	482.7
12	GROUND FISH COMMUNITIES	HOBSON	6.0	362.7
13	GROUND FISH PHYSIOLOGICAL ECOLOGY	ELDRIDGE	5.0	304.3
21	FISHERY MANAGEMENT ADVISORIES	MACCALL	2.5	203.2
		Subtotal	28.4	1667.6
01	PACIFIC FISHERIES ENVIRONMENTAL GRP	BOEHLERT	10.4	722.9
		Subtotal	10.4	722.9
		Total OR&F	214.9	16404.4

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

FMC: SWC

PAGE 2 OF 2

YOP EF#	TITLE	TASK LEADER	FTE	AMOUNT (\$K)
00	TIBURON LABORATORY ADMINISTRATION	MACCALL	6.3	314.7
11	GROUND FISH ANALYSIS	LENARZ	8.6	482.7
12	GROUND FISH COMMUNITIES	HOBSON	6.0	362.7
13	GROUND FISH PHYSIOLOGICAL ECOLOGY	ELDRIDGE	5.0	304.3
21	FISHERY MANAGEMENT ADVISORIES	MACCALL	2.5	203.2
		Subtotal	28.4	1667.6
01	PACIFIC FISHERIES ENVIRONMENTAL GRP	BOEHLERT	10.4	722.9
		Subtotal	10.4	722.9
		Total OR&F	214.9	16404.4

PERSONNEL SCHEDULE

SWC	050	2 of 2
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#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Tillman Michael		Center Director	ES-04	100	9WGN4001
Neal, Richard		Deputy Center Director	GM-15	100	9WGN4001
Mackett, David		Planning Officer	GM-14	100	9WGN4001
Rasmussen, Sherrie		Executive Officer	GM-13	100	9WGN4001
Hostler, Virginia		Equal Employment Mgr	GS-11	100	9WGN4001
West, Alice		Secretary	GS-07	100	9WGN4001
La Roche, Nancy		Computer Assistant	GS-07	100	9WGN4001

CURRENT YEAR OPERATING PLAN
FY 1994

FMC	REF. NO.	PAGE
SWC	050	1 OF 2

TITLE	TASK NUMBERS ->	->	Personnel Programs			
			Rtrmt Trng	20/20	Jr Flw	TASK #4
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL	
DIRECT LABOR	9WGN4003	8L1A1A01	8L1C1A01		17.9	
PERS. BENEFITS	.0	.0	.0		5.6	
TRAVEL	.0	.0	.0		.0	
TRANSPORTATION	.0	.0	.0		.0	
RENT, COMM., UTIL.	.0	.0	.0		.0	
PRINT/REPROD.	.0	.0	.0		.0	
CONTRACTS	3.0	2.2	.0		5.2	
SUPPLIES/MATERIAL	.0	.0	.0		.0	
EQUIPMENT	.0	.0	.0		.0	
GRANTS	.0	.0	.0		.0	
TOTALS	3.0	2.2	23.5		28.7	
FTE (FTP)			1.0		1.0	
FTE (OTFTP)						

Richard A. Neal

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN	
GOAL #	OBJ #

VESSELS # SEA DAYS ALLOC.		
NOAA	CHARTER	FREE

CROSS REFERENCES

PERSONNEL SCHEDULE

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Kim, Sally		Student Tr (Biolcl)	GS-03	25	8L1C1A01
Lau, Boulderson		Student Tr (Biolcl)	GS-03	25	8L1C1A01
Ruvelas, Penny		Student Tr (Biolcl)	GS-05	25	8L1C1A01
Stevenbergen, Kerri		Student Tr (Biolcl)	GS-05	25	8L1C1A01

CURRENT YEAR OPERATING PLAN
FY 1994

DATE

FMC

SWC

REF. NO.

PAGE

2 OF 6

TITLE		->		LA JOLLA GENERAL SUPPORT			
TASK NUMBERS ->		9WGN4005		9WGN4006		8L1A1ATT	
OBJECT CLASS		TASK #1		TASK #2		TASK #3	
		TASK #4		TASK #4		TASK #4	
DIRECT LABOR		161.4		67.4			
PERS. BENEFITS		33.7		13.9			
TRAVEL		10.0		.8			
TRANSPORTATION		13.6					
RENT, COMM., UTIL.		50.4		104.0		27.0	
PRINT/REPROD.		.5					
CONTRACTS		2.5		73.6		27.0	
SUPPLIES/MATERIAL		20.8		23.0			
EQUIPMENT				.5			
GRANTS							
TOTALS		292.9		283.2		54.0	
FTE (FTP)		6.0		2.0			
FTE (OTFTP)							
APPROVAL SIGNATURE		Richard A. Neal		HQ CONTACT			

STRATEGIC PLAN		
GOAL #	OBJ #	
VESSELS		
# SEA DAYS ALLOC.		
NOAA	CHARTER	FREE
CROSS REFERENCES		

FY 1994

PERSONNEL SCHEDULE

SWC

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#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Engstrand, Barbara	Program Support Spec.	GS-11	100	9WGN4005
2.	Watkins, Barbara	Program Support Asst.	GS-7	100	9WGN4005
3.	Holder, P. Gaye	Administrative Asst.	GS-6	100	9WGN4005
4.	Whyte, Ronald	Time & Leave Clerk	GS-4	100	9WGN4005
5.	Higa, Martha	Budget Assistant	GS-6	100	9WGN4005
6.	Nakovics, Bianca	Office Automation Clerk	GS-4	100	9WGN4005

PERSONNEL SCHEDULE

	050	5 OF 6
SWC		

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Marrow, Merle	Engineering Technician	GS-11	100	9WGN4006
2.	Krom, Stanley	Maintenance Technician	WG-8	100	9WGN4006

CURRENT YEAR OPERATING PLAN
FY 1994

FMC	REF. NO.	PAGE
SWC	050	1 OF 2

TITLE	->	Pacific Tuna and Billfish (JIMAR) (PPA)			
TASK NUMBERS ->	8L2APTPA	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS					
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS					
SUPPLIES/MATERIAL					
EQUIPMENT					
GRANTS	1,710.0				
TOTALS	1,710.0				
FTE (FTP)					
FTE (OTFTP)					

APPROVAL SIGNATURE

Richard A. Reed

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

VESSELS

SEA DAYS ALLOC.

NOAA	CHARTER	FREE

CROSS REFERENCES

EXECUTIVE SUMMARY					
TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Pac. Tuna & Billfish (JIMAR)	La Jolla, CA	0	\$1,710	R. Neal	
A. PROBLEM STATEMENT/OBJECTIVE: In order to implement appropriate management measures on highly pelagic species the Western Pacific Fishery Management Council has determined it requires additional information on the biology and population dynamics of stocks and on economic aspects of U.S. fisheries exploiting these stocks. This broad, multidisciplinary program has been designed to conduct research needed to supply information needed to fill critical gaps in our knowledge of highly pelagic stocks in the Central Pacific. B. METHODOLOGY/APPROACH: A complex, interrelated program of research activities designed to fill critical gaps in the knowledge base has been implemented including: Yellowfin Tuna Reproduction, Blue Marlin and Swordfish Population Structure, Physical Characteristics of the Environment, Social Aspects, Vessel Economics, Automated Monitoring of FADS, Tag-Recapture to Estimate Yellowfin Dynamics, Hawaii Catch/Effort Data Analysis, and Transshipment Operations Analysis. The Program Manager will integrate and interpret results and provide necessary inputs to the Council. C. PRODUCTS/SERVICES: Research results will be published for use of the scientific community and fishery managers worldwide, and needed data and analyses will be provided directly to the Western Pacific Fishery Management Council for use in their deliberations on management of the fisheries. D. CLIENTS: Western Pacific Fishery Management Council					

EXECUTIVE SUMMARY					
TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Pac. Tuna & Billfish (JIMAR)	La Jolla, CA	0	\$1,710	R. Neal	
A. PROBLEM STATEMENT/OBJECTIVE: In order to implement appropriate management measures on highly pelagic species the Western Pacific Fishery Management Council has determined it requires additional information on the biology and population dynamics of stocks and on economic aspects of U.S. fisheries exploiting these stocks. This broad, multidisciplinary program has been designed to conduct research needed to supply information needed to fill critical gaps in our knowledge of highly pelagic stocks in the Central Pacific. B. METHODOLOGY/APPROACH: A complex, interrelated program of research activities designed to fill critical gaps in the knowledge base has been implemented including: Yellowfin Tuna Reproduction, Blue Marlin and Swordfish Population Structure, Physical Characteristics of the Environment, Social Aspects, Vessel Economics, Automated Monitoring of FADS, Tag-Recapture to Estimate Yellowfin Dynamics, Hawaii Catch/Effort Data Analysis, and Transshipment Operations Analysis. The Program Manager will integrate and interpret results and provide necessary inputs to the Council. C. PRODUCTS/SERVICES: Research results will be published for use of the scientific community and fishery managers worldwide, and needed data and analyses will be provided directly to the Western Pacific Fishery Management Council for use in their deliberations on management of the fisheries. D. CLIENTS: Western Pacific Fishery Management Council					

CURRENT YEAR OPERATING PLAN
FY 1994

FMC	REF. NO.	PAGE
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TITLE		-> MahiMahi Export (PPA)			
TASK NUMBERS ->	8L3BA1PA	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS					
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS					
SUPPLIES/MATERIAL					
EQUIPMENT					
GRANTS	452.2				
TOTALS	452.2				
FTE (FTP)					
FTE (OTFTP)					

TOTAL

452.2

452.2

Richard A. Ward

STRATEGIC PLAN

GOAL # OBJ #

VESELS
SEA DAYS ALLOC.

NOAA CHARTER FREE

CROSS REFERENCES

HQ CONTACT

APPROVAL SIGNATURE

EXECUTIVE SUMMARY

2 of 2

SWC

050

TITLE

PRIN. FAC.

UNIT LEADER

LINE ITEM NAME

MahiMahi

La Jolla, CA

R. Neal

\$452.2

FTE

0

A. PROBLEM STATEMENT/OBJECTIVE: The Mahimahi (dolphin or dorado) has been identified as a fast-growing fish that is well-suited for production in aquacultural systems. Nevertheless, many aspects of production have not been fully developed and improved to the point where economical production is possible.

B. METHODOLOGY/APPROACH: Research has been focussed on hatchery methods, feeds and nutrition, land-based growout facilities and maintenance of suitable water quality for rapid growth. Economic evaluation of the production systems is the basis for future decisions regarding commercial production.

C. PRODUCTS/SERVICES: Public release of results in the form of scientific and popular articles and demonstration of technologies to the public. Contributions have included improved hatchery methods, feeds and growout facilities and procedures.

D. CLIENTS: Public and businessmen interested in fish farming in salt water. The emerging aquaculture industry that utilizes new information and techniques for a variety of species.

NIMS
 CURRENT YEAR OPERATING PLAN
 FY 1994

DATE

MARCH 9, 1994

FMC

REF. NO.

PAGE

SWC

050

1 OF 2

TITLE	->	Hawaii Stock Management (PPA)			
TASK NUMBERS ->	8L1A1CPA	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS					
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS					
SUPPLIES/MATERIAL					
EQUIPMENT					
GRANTS	474.0				
TOTALS	474.0				
FTE (FTP)					
FTE (OTFTP)					

TOTAL

474.0

474.0

Richard A. Nard

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

VESELS
SEA DAYS ALLOC.

NOAA CHARTER FREE

CROSS REFERENCES

EXECUTIVE SUMMARY

2 of 2

SWC

050

TITLE

Hawaii Stock Management

PRIN. FAC.

La Jolla, CA

FTE

0

\$K

\$474.0

UNIT LEADER

R. Neal

LINE ITEM NAME

A. PROBLEM STATEMENT/OBJECTIVE: Stocking of hatchery-reared fish to supplement natural production has been practiced for many years in fresh water with considerable success, and has been attempted from time-to-time in marine systems with mixed success. Factors influencing the success or failure of saltwater stocking are poorly understood.

B. METHODOLOGY/APPROACH: Because mullet are easily reared in the hatchery and are a common near-shore/estuarine fish in Hawaii, they were selected as the initial experimental animal. Relatively high rates of recovery have contributed to the successful analysis of the impact of age, size, release location, release time and other critical factors on survival of hatchery-reared mullet. Methods are being reevaluated with threadfin, a popular sport fish in Hawaii.

C. PRODUCTS/SERVICES: All results are public information and key results will be published in popular or scientific journals for general use. Improved techniques for stocking marine fish have been developed.

D. CLIENTS: Public agencies interested in evaluating new or proposed marine stocking programs.

CURRENT YEAR OPERATING PLAN
FY 1994

FMC	REF. NO.	PAGE
SWC	051	1 OF 4

TITLE	->	Scientific Services			
TASK NUMBERS ->	8L1A1A03	8L1A1A04	8L1A1A04	8L1A1A04	
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	Editorial	Ill. Svcs	Library		
DIRECT LABOR	86.1	124.9	41.9		252.9
PERS. BENEFITS	18.1	26.1	8.8		53.0
TRAVEL	0.2	.0	.0		.2
TRANSPORTATION	.0	.0	.2		.2
RENT, COMM., UTIL.	.0	.0	.8		.8
PRINT/REPROD.	4.0	.0	.0		4.0
CONTRACTS	0.5	1.0	1.7		3.2
SUPPLIES/MATERIAL	0.8	1.5	27.2		29.5
EQUIPMENT	0.0	1.5	.0		1.5
GRANTS	0.0	.0	.0		.0
TOTALS	109.7	155.0	80.6		345.3
FTE (FTP)	2.0	3.0	1.0		6.0
FTE (OTFTP)	0.8		.25		1.05

STRATEGIC PLAN	
GOAL #	OBJ #

VESSELS # SEA DAYS ALLOC.		
NOAA	CHARTER	FREE

CROSS REFERENCES

Richard A. Neal

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Editorial Services	La Jolla, CA	2.8	105.0	S. Smith	Edit. & Dir. Support

A. **PROBLEM STATEMENT/OBJECTIVE:** Objectives are to make available to NMFS constituents and the public accurate, timely, and clearly presented information concerning SWFSC research results and activities; to provide efficient and effective support to the Director's Office in tracking and reporting on progress of activities and responding to requests for information; to ensure Center publications meet established editorial standards and requirements and provide sound editorial advice to staff; and to ensure in-house information on research, special events, policy changes, and personnel actions are communicated to the SWFSC staff in an efficient, timely and effective way.

B. **METHODOLOGY/APPROACH:** Public informational materials, including brochures and media releases are issued on a regular basis; educational tours, lectures, and special events are coordinated; Center program milestones are tracked and Director's SES Performance Plan prepared; Center documents are edited and prepared for publication, including scientific manuscripts and special briefing documents and reports; Staff Meeting Minutes, Bimonthly Report of Activities, and Director Information Brief are assembled, edited and prepared for desk-top publishing.

C. **PRODUCTS/SERVICES:** SWFSC Bimonthly Report of Activities, Director's Information Brief, Director's Report to the Annual Tuna Conference, SWFSC weekly Staff Meeting Minutes, SWFSC brochures, headquarters and Southwest Region briefing documents and news items, press releases on Center activities.

D. **CLIENTS:** General public, school teachers, students, and civic groups benefit from public information activities; representatives from the media receive press releases and are contacted about Center activities which may be of interest to their readers; various NMFS constituents, congressional staff and others within NOAA and NMFS regularly receive the Center's Bimonthly Report of Activities and Annual Report to the Tuna Conference; NMFS Headquarters staff are provided with selective briefing items; editorial advice and standards are provided SWFSC staff scientists; and SWFSC personnel are clients in receiving information on Center research and personnel activities through the Director's Information Brief and Staff Meeting Minutes.

PERSONNEL SCHEDULE

SWC

051

3 of 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Raymond, Kenneth	Vis Info Spec	GS-12/10	100	8L1A1A04
2.	Smith, Susan	Writer/Editor	GS-12/04	100	8L1A1A03
3.	Losey, Debra	Tech Info Spec	GS-11/03	100	8L1A1A02
4.	Allen, Roy	Illustrator	GS-09/08	100	8L1A1A04
5.	Orr, Henry	Scntfc Illus	GS-09/08	100	8L1A1A04
6.	Blair, Connie	Writer/Editor	GS-07/01	100	8L1A1A03
7.	Perez, Esther	Edit Asst	GS-05/01	100	8L1A1A03
8.	Gagnon, Steve	Library Tech	GS-05/01	12.5	8L1A1A02
9.	Snell, Judy	Library Tech	GS-05/01	12.5	8L1A1A02

FMC	REF. NO.	PAGE
SWC	052	1 OF 5

TITLE		->	Information Technology Services			
TASK NUMBERS ->	8L1C1A02	8L1C1C03	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL	
DIRECT LABOR	213.1	41.5			254.6	
PERS. BENEFITS	44.8	8.7			53.5	
TRAVEL	1.0				1.0	
TRANSPORTATION	.1				.1	
RENT, COMM., UTIL.	1.3				1.3	
PRINT/REPROD.						
CONTRACTS	14.5				14.5	
SUPPLIES/MATERIAL	6.0				6.0	
EQUIPMENT	8.5				8.5	
GRANTS						
TOTALS	289.3	50.2			339.5	
FTE (FTP)	5	1			6	
FTE (OTFTP)						

APPROVAL SIGNATURE

Richard A. Ward

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

VESSELS
SEA DAYS ALLOC.

NOAA CHARTER FREE

CROSS REFERENCES

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Information Technology Srvcs	La Jolla, CA	5	354.0	Roll	Info.Anal./Dissemination

- A. PROBLEM STATEMENT/OBJECTIVE: Information Technology Services (ITS) provides the professional computer technology support services for the Center's management, research, and administrative staff to efficiently and effectively meet NMFS mission in the management of the living marine resources. The services cover a broad spectrum of computer technology to support the multi-disciplined environment in the Center.
- B. METHODOLOGY/APPROACH: To fulfill the charter of ITS, the ITS staff stays abreast of the rapid paced changes in technology trends in the computer hardware, software, and telecommunication fields by 1) reviewing the weekly and monthly computer related magazines/newsweeks, 2) evaluating off-the-shelf equipment and software to assess how they might contribute to the Center's productivity, and 3) attending formal advanced technical training workshops, seminars, and trade shows.
- C. PRODUCT/SERVICES: ITS serves 1) as the technical advisor to the SWC Science and Research Director's Office in the development of long/short range information technology plans and the strategy for the transition from the obsolete to the next-generation computer resources and 2) as the service unit for the Center's staff by designing/implementing information management systems, maintaining the Voice Communication and Local Area Network services, providing the computer hardware and scientific equipment interface services, providing hardware/software and telecommunication consulting services, and conducting/providing computer-related training programs.
- D. CLIENTS: The primary clients for these services are the management, scientific, technical, and administrative staff at the La Jolla Laboratory. The ITS staff provides information and assistance to the staff at the Southwest Region Office and the remote laboratories of the Southwest Fisheries Science Center. The ITS manager provides the liaison with NMFS Headquarters, other Fisheries Regions/Centers, National Ocean Service, and other federal and state agencies.

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Roll, Dorothy D. Bistodeau, Robert S. Ralston, Frank M. Bones, Matthew D. Vu, Thanh		Supv.Computer Specialist	GM 13	100%	8L1C1A02
		Computer Specialist	GS 12/3	100%	8L1C1A02
		Computer Specialist	GS 12/5	100%	8L1C1A02
		Electronics Technician	GS 11/4	100%	8L1C1A02
		Computer Specialist	GS 9/1	100%	8L1C1A02
Jacobson, Susan		Computer Specialist	GS 11/7	100%	8L1C1C03

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 94				95		96	
				1	2	3	4	1	2	1	2
8L1C1AG0	A		AIMS Evaluate existing Travel Order System	X							
	E E		Implement Travel Order System Final Personnel System implemented	X							
	A E		Define Training Request automation specifications Implement Training Request automation	X	X	X					
	E E		Implement developed AIMS modules at remote sties Implement Facilities Maintenance computer system	X	X	X	X	X	X	X	X
	A E		Define requirements for Hazardous Waste Tracking Implement Hazardous Waste Tracking Module for AIMS		X	X	X		X		
	E E		Implement major FY 94 FRS improvements/modifications Implement Facilities Maintenance computer systems	X	X						
	A E		Define requirements for CYOP Development Process Implement CYOP Development Process Module for AIMS		X	X	X				
			LAN IMPROVEMENTS								
	A E		Analysis of need for application software server Installation of additional LAN users on request	X	X	X	X	X	X	X	X
	A E		Analysis of network traffic for bridge/router installation Installation of second LAN Manager File server	X	X						
	E		Installation of software packages on LAN server (Quatro-Pro, WINDOWS, Fortran, SYSTAT)	X	X	X	X				

FMC	REF. NO.	PAGE
SWC	060	1 OF 4

TITLE	->	Senior Scientist Unit			
TASK NUMBERS ->	8L1A5V05				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	109.7				109.7
PERS. BENEFITS	23.0				23.0
TRAVEL	3.0				3.0
TRANSPORTATION	.0				.0
RENT, COMM., UTIL.	.0				.0
PRINT/REPROD.	.0				.0
CONTRACTS	.0				.0
SUPPLIES/MATERIAL	2.0				2.0
EQUIPMENT	1.2				1.2
GRANTS	.0				.0
TOTALS	138.9				138.9
FTE (FTP)	1.0				1.0
FTE (OTFTP)	1.0				1.0

APPROVAL SIGNATURE

Richard A. Neal

HQ CONTACT

STRATEGIC PLANGOAL #
4OBJ #
2 & 4VESSELS
SEA DAYS ALLOC.

NOAA

CHARTER

FREE

0

0

0

CROSS REFERENCES

TITLE

PRIN. FAC.

FTE

\$K

UNIT LEADER

LINE ITEM NAME

Senior Scientist

La Jolla

2.0

W.F. Perrin

Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: Support the conservation and management at domestic and international levels of marine mammals and endangered species and their critical habitats while evaluating commercial and recreational utilization as permitted by law (Objective 2 & 4 of Goal 4 in Strategic Plan).

B. METHODOLOGIES/APPROACH:

1. Provide a scientific basis for delineation of stocks of dolphins to be managed in conjunction with the tuna fishery in the ETP and fisheries in the ENP.
2. Provide expertise, advice and information on population biology for international conservation and management of cetaceans.

C. PRODUCTS/SERVICES:

1. Technical contributions to the literature on population biology of cetaceans in the ETP and elsewhere.
2. Advice and planning documents.
3. Organization and operation of national and international workshops, symposia and advisory bodies.

D. CLIENTS:

1. SWC/SWR
2. IWC
3. IUCN
4. US MMC
5. CMS

E. CONTRACTS:

PERSONNEL SCHEDULE

SWC

060

3 of 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Perrin, William F.		Sup. Fishery Biologist	GM/15	100	8L1A5VP1
LeDuc, Richard		Biological Technician	GS/7/1	50	8L1A5V05
Archer, F. I., II		Biological Tech.	GS/7/1	50	8L1A5V05

SWC		060		4 of 4					
MILESTONE ARRAY									
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 93		94		95	
8L1A5VP1	M	1	Submit paper on head pigmentation in delphinoids	1	2	3	4	1	2
8L1A5VP1	M	2	Participate in meeting of monk seal recovery team	D			5		
8L1A5VP1	A	3	Carry out field research on dolphins in Philippines	x	x				
8L1A5VP1	M	4	Participate in meeting of Monk Seal Recovery Team	N					
8L1A5VP1	M	5	Participate in meeting of Monk Seal Recovery Team		M				
8L1A5VP1	A	6	Continue editing proceedings volumes	x	x	x	x	x	x
8L1A5VP1	A	7	Carry out duties as chairman, MMC Comm. of Scientific Advisors	x	x				

FMC	REF. NO.	PAGE
SWC	301	1 OF 5

TITLE	->	Coastal E. Pac. Pop. Biol. Fishes			
TASK NUMBERS ->	8L1A3A30	8L1A3A31			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	301A	301B			
DIRECT LABOR	147.4	150.5			297.9
PERS. BENEFITS	31.0	31.6			62.6
TRAVEL	4.5	0.4			4.9
TRANSPORTATION	0.0	0.0			0.0
RENT, COMM., UTIL.	13.2	0.0			13.2
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	0.0	0.0			0.0
SUPPLIES/MATERIAL	7.3	10.5			17.8
EQUIPMENT	0.0	0.0			0.0
GRANTS	12.0	0.7			12.7
TOTALS	215.4	193.7			409.1
FTE (FTP)	3.0	4.0			7.0
FTE (OTFTP)	0.0	0.0			0.0

Richard A. Neal

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN	
GOAL #	OBJ #
1	1-3
2	1-2
6	1

VESSELS	
# SEA DAYS ALLOC.	

NOAA	CHARTER	FREE

CROSS REFERENCES	
304	320
318	330
319	

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Pop. Biol. Fish. Coast	La Jolla	7.0	409.1	J.R. Hunter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task provides biological data needed for fishery independent biomass assessment of coastal pelagic and groundfishes and data needed for understanding the dynamics of these populations such as estimating the effect of environment and population size and structure on growth, reproduction, mortality, and recruitment. Data are also provided on potential interactions among major fish stocks.

B. METHODOLOGY/APPROACH: Our approach is to emphasize the development of new methodologies and evaluations of methods and assumptions underlying standard techniques while providing data needed for management of the stocks. Methodologies include: (1) Laboratory studies designed to develop accurate tools and procedures for sea assessment of biological rates such as spawning, growth, starvation mortality, predation mortality, and use and allocation of energy, (2) Conduction of annual cruises designed to estimate these rates, and (3) Analysis of these data and, in cooperation with other Coastal Division staff, the development of models that provide estimates of biomass and population dynamics based on the data collected at sea.

C. PRODUCT/SERVICES: We produce two classes of products: (1) Parameter estimates and models used by the Commercial and Recreational Fisheries Research Management program of the Center for biomass estimates and for incorporation in management plans for west coast groundfish and wetfish stocks and (2) Development of new methodologies and concepts used by fishery scientists in other NMFS Centers, state agencies, and fisheries groups world-wide and made available through scientific publication and presentation. For example, this task has played a leading international role in recruitment research and ichthyoplankton biomass assessment.

D. CLIENTS: Models and population assessments produced by the task will be used by various fishery management teams including Fishery Management Plan Teams, the Pacific Fishery Management Council, California Department of Fish and Game, and other state management groups.

E. CONTRACTS: None.

PERSONNEL SCHEDULE

SWC

301

3 OF 5

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	John R. Hunter	Fishery Biologist (R)			
2.	Russell D. Vetter	Adm.	GM	100%	8L1A3A30
3.	Eric A. Lynn	Physiologist	GM	100%	8L1A3A31
4.	Carol A. Kimbrell	Fishery Biologist (R)	GS	100%	8L1A3A31
5.	Beverly J. Macewicz	Fishery Biologist (R)	GS	100%	8L1A3A31
6.	Larry L. Robertson	Fishery Biologist (R)	GS	100%	8L1A3A30
7.	Diane E. Foster	Biological Tech. Fish. Secretary	GS	100%	8L1A3A31
	Other				8L1A3A30

MILESTONE ARRAY

MILESTONE ARRAY												
TASK #			MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS							
					1	2	3	4	94	95	96	
8L1A3A31			E	1	N							
"			A	2	F							
"			A	3	N			A				
"			A	4		J						
Canceled			A	5	N							
Postponed			A	6	N					A		
Canceled			A	7	N					A		
"			A	8		J						
"			A	9	N							

MILESTONE ARRAY

MILESTONE ARRAY			SIGNIFICANT MILESTONE DESCRIPTIONS											
TASK #	MAE	SEQ												
			FY 94 95 96											
			1	2	3	4	1	2	1	2	1	2		
8L1A3A31	A	10												
"	A	11				A								
"	A	12												
8L1A3A30	A	13												
"	A	14												
"	A	15												
"	A	16												
"	A	17												
"	A	18												
"	A	19												

FMC	REF. NO.	PAGE
SWC	304	1 OF 4

TITLE		Fisheries Environmental Investigations				
TASK NUMBERS ->	->	8L1A4B32	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS			TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR		233.2				
PERS. BENEFITS		49.0				
TRAVEL		0.4				
TRANSPORTATION		0.0				
RENT, COMM., UTIL.		0.0				
PRINT/REPROD.		0.0				
CONTRACTS		0.0				
SUPPLIES/MATERIAL		3.0				
EQUIPMENT		0.0				
GRANTS		0.0				
TOTALS		285.6				
FTE (FTP)		4.4				
FTE (OTFTP)		0.0				
TOTAL						
TOTAL		285.6				
FTE (FTP)		4.4				
FTE (OTFTP)		0.0				

STRATEGIC PLAN	
GOAL #	OBJ #
1	2
3	1-3

VESSELS	
# SEA DAYS ALLOC.	
NOAA	CHARTER
	FREE

CROSS REFERENCES	
301	320
318	330
319	

Richard A. Neal

APPROVAL SIGNATURE HQ CONTACT

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Fisheries & Envir. Invest.	La Jolla	4.4	285.6	R.J. Lynn	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This is a comprehensive, multidisciplinary task to investigate and model linkages between recruitment processes in selected California Current fish species and key oceanographic processes. The goal of the research is to provide a more effective scientific basis for the management of commercial and recreational fish stocks through an improved understanding of the effects of variation in the physical environment upon year class strength.

B. METHODOLOGY/APPROACH: The ecosystem approach is followed in these studies to understand fish-ocean relationships needed for the effective management of selected California Current fish stocks. The research program is based on the analysis of field measurements, historical analysis and modeling. Physical process studies address the transport of early life stages by variable currents. Biological process studies will address the role of ocean circulation on stock structure and growth, and community dynamics. Modeling activities explore and synthesize the mechanistic relations between variability in physical oceanographic processes and early life stages of fishes. Research is focused on selected West coast groundfishes. In addition to utilizing traditional biological and physical oceanographic approaches, extensive use is made of recent technological developments for monitoring the ocean environment. The task plays a leading role in expanding the application of satellite remote-sensing to the understanding of fish recruitment. It also serves as the NOAA CoastWatch West Coast Regional node and will serve as the NOAA Coastal Ocean office and West Coast Strategic site for acquiring SeaWiFS satellite ocean color data.

C. PRODUCT/SERVICES: Scientific articles published in marine science literature; written and oral reports to the Pacific Fishery Management Council on the occurrence of unusual environmental events along the West coast and the implications to fishery resources; redistribution of satellite data and data products; El Niño Watch Advisory.

D. CLIENTS: Knowledge gained by this research will influence judgements in Pacific Fishery Management Councils and Statistical Committee in negotiations with other nations involved in West coast fisheries.

E. CONTRACTS: None

PERSONNEL SCHEDULE

SWC

304

3 OF 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE					
1.	R. Michael Laurs	Supv. Oceanographer (R)	GM	40%	8L1A4B32
2.	Ronald J. Lynn	Oceanographer	GM	100%	8L1A4B32
3.	Robert Nishimoto	Fishery Biologist (R)	GS	100%	8L1A4B32
4.	Kenneth A. Bliss	Oceanographer	GS	100%	8L1A4B32
5.	Ronald C. Dotson	Fishery Biologist (R)	GS	100%	8L1A4B32

TITLE	->	Ecology & Systematics of Fishes			
TASK NUMBERS ->	8L1A3A33				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	237.2				237.2
PERS. BENEFITS	49.8				49.8
TRAVEL	1.4				1.4
TRANSPORTATION	0.0				0.0
RENT, COMM., UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	3.0				3.0
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS	291.4				291.4
FTE (FTP)	5.0				5.0
FTE (OTFTP)	0.8				0.8

APPROVAL SIGNATURE

Richard A. Neel

HQ CONTACT

STRATEGIC PLANGOAL # OBJ #

1	1-3
2	1-2
3	1,3

VESSELS

SEA DAYS ALLOC.

NOAA	CHARTER	FREE

CROSS REFERENCES

301	320
304	330
319	

TITLE		PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Ecol. & System. of Fishes		La Jolla	5.8	291.4	H.G. MOSER	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary goal is to produce data and analyses that lead to a comprehensive understanding of the fish stocks of the California Current region in relation to their environment. Plankton surveys provide information on distribution abundance, reproduction, spawning stock biomass, mortality, and recruitment of fish stocks along with associated oceanographic factors. A major goal is to determine how fluctuations in abundance and distribution of fish stocks are related to oceanographic flux and predator-prey interactions over short-term (seasonal/interannual) and long-term (decadal/climate) time scales.

B. METHODOLOGY/APPROACH: Samples of fish eggs and larvae from historical and current plankton survey and trawl cruises are utilized to produce data for this task. Approximately 500 species of fishes are represented in these samples. Processing involves identification, enumeration, measurement, staging, and computer entry. Resultant data are subjected to time series and community analyses leading to the formulation of ecosystem models. New methodologies are developed to measure biomass of fish stocks using ichthyoplankton techniques. An example is the egg production biomass estimation method developed for coastal pelagic species and selected groundfishes (e.g. Dover sole, sablefish).

C. PRODUCT/SERVICES: (1) Data bases and reports on the distribution & abundance of ichthyoplankton from California and Baja California from 1939 to the present, (2) Time series summaries showing seasonal and interannual changes in abundance and distribution of major species, (3) Ecological analyses that elucidate species interaction and environmental effects on abundance, (4) Scientific publications that present new methodologies for biomass estimation and results of research cruises that employ these methods, (5) Scientific publications on the early life history of fishes that range from papers on individual species and identification guides to comprehensive treatises, and (6) Training courses on ichthyoplankton and techniques.

D. CLIENTS: Scientists in world-wide public and private institutions use our data, reports, and formal publications in their research on commercial, recreational, and ecologically important fish stocks and in formulating ecosystem models. Managers and councils use our information for establishing optimal harvest quotas and conserving territorial fish stocks. The fishing industry uses our information for determining areas of abundance of target species. Private consulting firms and conservation agencies use information for producing their reports. The task has a long-standing commitment to training professional biologists and the public.

E. CONTRACTS: None

PERSONNEL SCHEDULE

SWC

318

3 OF 5

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE					
1.	H. Geoffrey Moser	Supervisory Fishery Biologist (R)	GM 14/00	100%	8L1A3A33
2.	David Ambrose	Fishery Biologist (R)	GS 11/06	100%	8L1A3A33
3.	William Watson	Fishery Biologist (R)	GS 11/06	100%	8L1A3A33
4.	Elaine Acuna	Biological Lab Tech.	GS 09/09	100%	8L1A3A33
5.	Sharon Charter	Fishery Biologist (R)	GS 09/05	100%	8L1A3A33
	Other				
6.	Nancy Pollak	Scientific Illustrator	GS 05/01	80%	8L1A3A33

MILESTONE ARRAY

MILESTONE ARRAY			SIGNIFICANT MILESTONE DESCRIPTIONS															
TASK #	MAE	SEQ	FY 94												95		96	
			1	2	3	4	1	2	1	2								
Extended 8L1A3A33	M	1	CalCOFI Ichthyoplankton Guide: Complete illustrations and descriptions for the guide and submit manuscript for review.															
"	M	2	CalCOFI Atlas: Complete synopsis of spatial and temporal distribution of taxa for second atlas and submit for publication. (Moser and staff with R. Charter, P. Smith, and C. Meyer).															
Canceled	A	3	Groundfish recruitment: Plan and participate in 1994 CFRD research cruises. (With CFRD groundfish team)															
PARTIALLY COMPLETED	A	4	Groundfish recruitment: Identify and analyze samples of eggs, larvae, and pelagic juveniles of Dover sole, other groundfish, and associated species from groundfish research cruises and begin to prepare manuscripts. (With CFRD groundfish team)															
CANCELED	A	5	Continue developing manuscripts on life history and distribution of other groundfish target species (e.g., thornyheads and flatfish) based on historical CalCOFI data and CFRD groundfish cruises. (Moser and staff with Groundfish team)															
"	A	6	Continue collaboration with Paul Smith on patterns of seasonal and inter-annual variation of fish larvae in the CalCOFI time series from 1951 to the present.															
CANCELED	A	7	Collaboration with John Butler on aging of larvae and pelagic juveniles of thornyheads. (With CFRD groundfish team)															
"	A	8	Stage eggs for sardine and anchovy biomass estimates.															
"	A	9	Identification and analysis of ichthyoplankton from CalCOFI and adjacent regions.															

TITLE	->	Coastal & Pac. Fish. Res. Invest.			
TASK NUMBERS ->	8L1A6A34	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS		TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR		332.8			
PERS. BENEFITS		54.1			
TRAVEL		5.7			
TRANSPORTATION		0.0			
RENT, COMM., UTIL.		0.0			
PRINT/REPROD.		0.0			
CONTRACTS		26.3			
SUPPLIES/MATERIAL		8.2			
EQUIPMENT		6.0			
GRANTS		0.0			
TOTALS		433.1			
FTE (FTP)		5.0			
FTE (OTFTP)		3.0			

TOTAL

332.8

54.1

5.7

0.0

0.0

0.0

26.3

8.2

6.0

0.0

433.1

5.0

3.0

APPROVAL SIGNATURE

HQ CONTACT

*Richard A. Neal*STRATEGIC PLANGOAL # OBJ #1 1-3
2 1-2
3 1-3VESSELS

SEA DAYS ALLOC.

84

NOAACHARTERFREE

105

0

32

CROSS REFERENCES301
304
318320
330

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Coastal & Pac. Fish./ Invest.	La Jolla	8.0	433.1	R.L. Charter	Resource Information

- A. **PROBLEM STATEMENT/OBJECTIVE:** This task provides the basic information required for the annual assessment of stocks supporting California coastal fisheries. This task provides the logistics in FY94 for four California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises, one aerial mackerel survey, one sardine trawling cruise, and one sardine biomass estimation cruise.
- B. **METHODOLOGY/APPROACH:** We will complete five ichthyoplankton survey cruises collected over 2000 plankton samples. All of the data from these cruises and samples will be processed by the personnel of this task and cooperating people from the University of California's Scripps Institution of Oceanography. These data will be added to the CalCOFI historical time series. We will also be updating and improving the CalCOFI historical data bases (1951-1990). The Aerial Marine Monitoring System (AMRMS) data bases will also be updated as we get new data.
- C. **PRODUCTS/SERVICES:** The major products of this task are the CalCOFI data bases, the AMRMS data base, and the newly acquired groundfish information. Major services include logistics for all Coastal Division cruises, data base management, and assistance in data analysis.
- D. **CLIENTS:** The main clients will be the Pacific Fishery Management Council, Scripps Institution of Oceanography and other NMFS fishery centers.
- E. **CONTRACTS:** Aerial Spotter Contracts (\$25.0K) is set for data collection for the Aerial Marine Resource Monitoring System.

PERSONNEL SCHEDULE

3 OF 5

319

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE					
1.	Richard Charter	Supv. Computer Programmer Analyst	GM 13/0	100	8L1A6A34
2.	Cindy Meyer	Computer Programmer	GS 11/7	100	8L1A6A34
3.	Dave Griffith	Fishery Biologist (R)	GS 11/4	100	8L1A6A34
4.	Dimitry Abramenkoff	Fishery Biologist (R)	GS 09/7	100	8L1A6A34
5.	Susan Manion	Fishery Biologist	GS 09/3	100	8L1A6A34
Other					
6.	Amy Hays	Biological Technician	GS 05/2	96	8L1A6A34
7.	Lucy Dunn	Biological Technician	GS 05/4	67	8L1A6A34
8.	Frances Pocinich	Biological Technician	GS 05/3	67	8L1A6A34
9.	Jeanne Haddox	Biological Technician	GS 05/4	67	8L1A6A34

SIGNIFICANT MILESTONE DESCRIPTIONS

MILESTONE ARRAY			SIGNIFICANT MILESTONE DESCRIPTIONS											
TASK #	MAE	SEQ												
8L1A6A34	A	12	Provide consultation to CFRD staff for all matters pertaining to purchase and maintenance of computer hardware & software.											
"	A	13	Provide expert advice to Center administration data management, shipboard computing, word processing, A-76, and IT-95.											
CANCELED	A	14	Update the other fish larvae files (85-present) with data as data becomes available.											
"	A	15	Design procedure and develop and implement the use of high speed midwater trawl.											
"	E	16	In cooperation with Dr. Moser's task produce a species distribution summary for the species which occurred less than a thousand times in the CalCOFI data base.											
"	A	17	Design and complete a sardine biomass estimation cruise collecting approximately 1000 plankton tows and 60 positive sardine trawls.											
"	A	18	Design and develop ORACLE relational data bases for the CalCOFI data. Load the data into the relational data base on the ITS work station.											
"	A	19	Carry out sardine biomass survey.											

FMC	REF. NO.	PAGE
SWC	320	1 OF 4

TITLE	->	Survey Systems Develop. & Evaluation			
TASK NUMBERS ->	8L1A6A35				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	203.9				203.9
PERS. BENEFITS	42.8				42.8
TRAVEL	1.4				1.4
TRANSPORTATION	0.0				0.0
RENT, COMM., UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	3.0				3.0
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS	251.1				251.1
FTE (FTP)	3.0				3.0
FTE (OTFTP)	1.0				1.0

STRATEGIC PLAN		
GOAL #	OBJ #	
1	1-3	
2	1-2	
3	1,3	

VESSELS # SEA DAYS ALLOC.		
NOAA	CHARTER	FREE

CROSS REFERENCES		
301	319	
304	330	
318		

Richard A. Neal

APPROVAL SIGNATURE

HQ CONTACT

TITLE		PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Survey Systems Dev. & Eval.		La Jolla	4.0	251.1	P.E. Smith	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: There are increasing demands for quantitative information on the status of fish stocks for fishery development, management and allocation of stocks. There is historical information on the spawning activity of commercial stocks of fish and their associates and SWC-320 maintains files of data from 1939 to the present regarding status of the fish, their spawning grounds and physical oceanographic measurements. Our primary objective is to provide quantitative species and environmental data to aid in development and management of the fisheries.

B. METHODOLOGY/APPROACH: With other specialists, we design and carry out field surveys to gather accurate, precise, inclusive, and representative data on fish population size and spawning area using data on abundance, production, survival, and dispersal of fish eggs and larvae. We also incorporate population models for evaluation of mortality and growth. Consideration is given to the past surveys to maintain continuity with historical data so that time-series may be assembled for the evaluation of changes in the population. We also specify new and archive old data on ocean climatology in the California Current Ecosystem.

C. PRODUCT/SERVICES: Our main products and services are scientific papers on the basic biology of and changes in resource populations and the environment and documented sets of data for other scientists or data summaries for fishery managers.

D. CLIENTS: Our major clients are regional fishery managers, NMFS and California Department of Fish and Game, other scientists at the University of California, and global interests in the understanding of resource population changes.

E. CONTRACTS: None

PERSONNEL SCHEDULE

3 OF 4

320

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE					
1.	Paul E. Smith	Fishery Biologist (R)	GM	100%	8L1A6A35
2.	Nancy C.H. Lo	Math. Statistician	GS	100%	8L1A6A35
3.	John L. Butler	Fishery Biologist (R)	GS	100%	8L1A6A35
	OTHER				
4.	Michele Lyons	Oper. Res. Analyst	GS	63%	8L1A6A35
5.	Celeste Lashley	Computer Clerk	GS	40%	8L1A6A35

MILESTONE ARRAY

MILESTONE ARRAY			SIGNIFICANT MILESTONE DESCRIPTIONS												FY 94				95				96			
TASK #	MAE	SEQ													1	2	3	4	1	2	1	2				
8L1A6A35	A	1	Contribute historical and geographic information for pelagic fish management plan development. (Lo and Smith with Jacobson)												O	-	-	A								
"	E	2	Collaborate on the use of ADCP, satellite and CalCOFI historical and concurrent information to predict habitat changes for pelagic schooling fishes. (Smith & Lyons)												O	-	-	-	J							
CANCELED	A	3	Complete manuscript of aerial survey indices of sardine, Pacific mackerel, and jack mackerel for inclusion in pelagic fish management plan. (Lo)												O	M										
"	A	4	Complete paper with Geoff Moser on abundance of fish larvae in time series.												D	-	M									
CANCELED	A	5	Determine duration of planktonic phase of longspine thornyhead.												O	-	-	A								
"	A	6	Determine number of high speed rope trawls needed for age distribution and growth rates to be compared with the matrix model. (Smith, Charter, Griffith, and Dotson).												O	-	-	A								

TITLE	->	Comm. & Rec. Fish. Research for Mgmt.			
TASK NUMBERS ->	8L1C2A30	8L1C2A31	8L1C2A33		
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	330A	330B	330C		
DIRECT LABOR	222.3	9.4	19.3		251.0
PERS. BENEFITS	46.7	2.0	4.1		52.8
TRAVEL	8.4	0.0	0.0		8.4
TRANSPORTATION	0.0	0.0	0.0		0.0
RENT, COMM., UTIL.	0.0	0.0	0.0		0.0
PRINT/REPROD.	0.5	0.0	0.0		0.5
CONTRACTS	0.0	0.0	0.0		0.0
SUPPLIES/MATERIAL	3.0	0.0	0.0		3.0
EQUIPMENT	0.0	0.0	0.0		0.0
GRANTS	0.0	0.0	0.0		0.0
TOTALS	280.9	11.4	23.4		315.7
FTE (FTP)	4.0	0.0	0.0		4.0
FTE (OTFTP)	0.3	0.5	0.7		1.5

APPROVAL SIGNATURE

Richard A. Neal

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

1	1-3
2	1-4
7	2

VESSELS
SEA DAYS ALLOC.

NOAA CHARTER FREE

CROSS REFERENCES

301	319
304	320
318	

PERSONNEL SCHEDULE

3 OF 4

330

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Larry Jacobson	Supv. Fishery Biologist	GM 14/00	100%	8L1C2A30
2.	Dale Squires	Industry Economist	GM 13/00	100%	8L1C2A30
3.	Samuel Herrick	Industry Economist	GS 13/06	100%	8L1C2A30
4.	Cynthia Thomson	Industry Economist	GS 12/05	100%	8L1C2A30
	Other				
5.	Scott Bell	Computer Clerk	GS 04/01	30%	8L1C2A30
6.	Byron Rader	Student Economist	GS 05/01	50%	8L1C2A31
7.	Ken Sakoi	Junior Economist	GS 09/01	59%	8L1C2A33
8.	John Austin	Computer Clerk	GS 05/01	13%	8L1C2A33

SWC		330	4 OF 4							
MILESTONE ARRAY										
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS							
			FY 94 95 96							
			1	2	3	4	1	2	1	2
8L1C2A30 CANCELED	A	1	FMP for coastal pelagics.							
"	E	2	Provide preliminary anchovy biomass estimate to SWR by July 1, 1994.							
"	M	3	Complete documentation of final anchovy biomass estimate by August 1, 1994.							
"	M	4	Write/augment annual report on status of wetfish fishery by July 1, 1994.							
"	A	5	Administer SWR socioeconomic fund and update annual report.							
CANCELED	A	6	Conduct special fish spotter survey of mackerel and sardine resource.							
8L1C2A31	A	7	Publish analysis of economics of tuna-dolphin problem in ETP tuna fishery.							
DELAYED 8L1C2A33	A	8	Prepare report on value of San Francisco Bay commercial and recreational fisheries.							

SWC

401

1 OF 5

TITLE		->		Large Pelagics Stock Investigation					
TASK NUMBERS ->		8L1A6A40	8L1A6A41	TASK #2		TASK #3		TASK #4	
OBJECT CLASS		Alb.&Tuna		B'fish/Sh.					
DIRECT LABOR		149.6	44.5						
PERS. BENEFITS		31.4	9.3						
TRAVEL		2.0	1.0						
TRANSPORTATION		0	0						
RENT, COMM., UTIL.		2.4	0						
PRINT/REPROD.		3.0	1.5						
CONTRACTS		50.0	0						
SUPPLIES/MATERIAL		6.6	0						
EQUIPMENT		0	0						
GRANTS		0	0						
TOTALS		245.0	56.3						
FTE (FTP)		3.0	1.0						
FTE (OTFTP)									

STRATEGIC PLAN	
GOAL #	OBJ #

VESSELS		
# SEA DAYS ALLOC.		
NOAA	CHARTER	FREE

CROSS REFERENCES	

Richard A. Neef

HQ CONTACT

APPROVAL SIGNATURE

TITLE - Tuna &	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Large Pelagics Stock Inves.	La Jolla	4.0	301.3	N. Bartoo	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates and provides advice and information on stocks of large pelagics found in both the Oceanic ecosystem and the California Current ecosystems of the Pacific Ocean. Investigations and work plans are formulated to meet requirements specified by NMFS resource managers, international fisheries agreements (IATTC, ICCAT, IOFC, ITPP, S. Pacific Tuna Treaty) and regional fisheries management councils (Pacific and Western Pacific). The data and advice are used in management negotiations and discussions regarding access, exploitation, rebuilding, and protection of the resources, and for management of the fisheries. Accomplishments of this task directly support the NMFS objectives of maintaining currently productive fisheries and improving the effectiveness of international fisheries relationships.

B. METHODOLOGY/APPROACH: This task collects data and biological information developed from experiments and fishery sampling and integrates similar data generated by related tasks. The adequacy and accuracy of data and information are assessed, and appropriate fisheries and ecological models are employed or developed to produce required assessments and advice.

C. PRODUCT/SERVICES: Products are scientific reports and publications providing assessments and ecological information and data on stocks and fisheries as required. Products are distributed in the form of internal reports, newsletters, SWFC Administrative Reports, NOAA Technical Memorandums, and various technical publications

D. CLIENTS: Principal clients include NMFS managers, U.S. Government commissioners to international organizations, SSC of regional councils, industry leaders, and SWFSC scientists.

E. CONTRACTS:

PERSONNEL SCHEDULE

PERSONNEL SCHEDULE					
#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Bartoo, N. Au, D.W. Holts, D.B. Ramon, D.	Supv. Fish. Biol Fish. Biol. Fish. Biol. Fish. Biol.	GM14 GS13/8 GS12/4 GS7/1	100 100 100 100	8L1A6A40 8L1A6A40 8L1A6A41 8L1A6A40	

MILESTONE ARRAY

SIGNIFICANT MILESTONE DESCRIPTIONS												
TASK #	MAE	SEQ										
			FY 94			95			96			
			1	2	3	4	1	2	1	2		
8L1A6A40	A	1	X	X	X	X	X	X	X	X	X	
8L1A6A40	M	2	X	X	X	X	X	X	X	X	X	
8L1A6A40	A	3	X	X	X	X	X	X				
CANCEL 8L1A6A40	A	4	X	X	X	X						
8L1A6A40	E	5	X									
REDUCED 8L1A6A40	A	6	X	X	X							
8L1A6A40	A	7	X	X	X	X						
8L1A6A41	A	8	X	X	X	X						
CANCEL 8L1A6A41	A	9	X	X	X	X	X	X	X	X		
8L1A6A41	M	10			X							
REDUCED 8L1A6A41	A	11	X	X	X	X						

FMC	REF. NO.	PAGE
SWC	411	1 OF 5

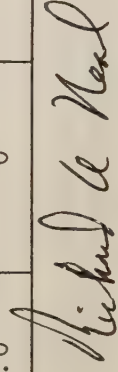
TITLE	->	Multispecies Data Coll. & Eval.			
TASK NUMBERS ->	8L1A6A42	8L1C1V40			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	
	Lg. Pel.	Mar. Mam.			
DIRECT LABOR	185.2	137.4		TOTAL	
PERS. BENEFITS	38.9	28.9		322.6	
TRAVEL	4.7	0		67.8	
TRANSPORTATION	0	0		4.7	
RENT, COMM., UTIL.	12.9	9.0		0	
PRINT/REPROD.	4.0	1.0		21.9	
CONTRACTS	0	0		5.0	
SUPPLIES/MATERIAL	4.0	0		0	
EQUIPMENT	0	0		4.0	
GRANTS	0	0		0	
TOTALS	249.7	176.3		426.0	
FTE (FTP)	3.2	3.8		7.0	
FTE (OTFTP)	2.0	0		2.0	

STRATEGIC PLAN	
GOAL #	OBJ #

VESSELS		
# SEA DAYS ALLOC.		
NOAA	CHARTER	FREE

CROSS REFERENCES	
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APPROVAL SIGNATURE



HQ CONTACT

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
MultispeciesDataColl.&Eval.	La Jolla	9.0	426.0	A. Coan	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Monitoring ecosystems and forecasting changes in marine resources require collection of data pertinent to the resource and environment, as well as maintaining the data in easily accessible databases for review, analysis and dissemination of these data. The objective of this task is to collect required data from various published sources, from established data exchange agreements, and from actual field sampling programs. This task is also responsible for using state of the art automated data systems for archiving and processing the data. Data collection and bases being maintained include Atlantic, Pacific, and Indian Ocean large pelagics data and marine mammal observer data. Accomplishment of this task contributes directly to the NMFS objectives of maintaining currently productive fisheries, integrating conservation of protected species and fisheries management, and improving the effectiveness of international fisheries relationships.

B. METHODOLOGY/APPROACH: This task routinely handles tuna-dolphin observer data, coastal gillnet observer data, tuna fisheries data, and other data collected from field experiments, expeditions, and port sampling. Various sources including publications, international contacts, data exchange agreements, etc. are used. This task also uses statistical methodologies to develop and maintain field sampling programs for the collection of information on fisheries for large pelagics, and for collection of information on marine mammals. Up-to-date computer technologies are used to develop and maintain data base systems and to provide software for supporting analyses of oceanic and California Current ecosystems, and resource forecasting for large pelagic stocks and marine mammals.

C. PRODUCT/SERVICES: Principal products of this task are software, data bases and data collection systems in support of research. This task provides annual summaries and analyses of data by fisheries for use in stock assessments and fisheries evaluations.

D. CLIENTS: Products and services produced by this task are made available for use by other SWFSC tasks for various foreign and domestic fisheries management organizations, NOAA fishery administrators, industry and constituency groups and fishery managers. Data are also used by constituency groups involved in fishery development, and marine mammal and large pelagics issues.

E. CONTRACTS: Key Punch - Various private companies
Microfilming - Various private companies
Data base development - Private companies

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Coan, A		Supv. Math. Statistician	GM13	100	8L1A6A42
Childers, J.		Comp. Prog (Term)	GS7/1	100	8L1A6A42
Jackson, A.		Fish. Biol.	GS11/4	100	8L1A6A42
Prescott, D.		Comp. Prog.	GS9/3	100	8L1A6A42
DaRodda, D.		Comp. Prog. (Term)	GS7/1	100	8L1A6A42
Wallace, K.		Comp. Prog. Analyst	GS12/4	100	8L1C1V40
Perrin, C.		Comp. Prog. Analyst	GS11/7	80	8L1C1V40
"		"	"	20	8L1A6A42
Tran, J.		Comp. Prog.	GS7/4	100	8L1C1V40
Rasmussen, R.		Fish. Biol. Tech.	GS8/10	100	8L1C1V40

MILESTONE ARRAY

			SIGNIFICANT MILESTONE DESCRIPTIONS												FY 94			95			96		
TASK #	MAE	SEQ													1	2	3	4	1	2	1	2	
<i>SUSPENDED</i> 8L1A6A42	A	1	Update Atlantic tropical tuna data bases																				
8L1A6A42	A	2	Develop and maintain data bases for Pacific Ocean and Indian Ocean tunas and other large pelagics.												O			S	O	S	O	S	
<i>REDUCED</i> 8L1A6A42	A	3	Collect and monitor sampling from fisheries for tunas and large pelagics in the Pacific and Indian Oceans.												O			S	O	S	O	S	
8L1A6A42	E	4	Produce quarterly "Tuna Newsletter"												N	F	M	A					
8L1A6A42	M	5	Produce report summarizing data for the 1992-93 U.S. fisheries for albacore in the North and South Pacific.															J	J			J	
<i>REDUCED</i> 8L1A6A42	A	6	Enhance data systems, retrieval and analysis capabilities of large pelagic data systems.												O			S	O	S	O	S	
8L1A6A42	A	7	Provide PFRD with software and hardware support.												O			S	O	S	O	S	
8L1C1V40	A	8	Provide MMD with software and hardware support.												O			S	O	S	O	S	
8L1C1V40	A	9	Produce comprehensive data base edits in support of porpoise observer data analyses												O			S	O	S	O	S	
8L1C1V40	A	10	Develop and maintain data bases for marine mammals												O			S	O	S	O	S	
8L1C1V40	E	11	Participate in and process data from eastern tropical Pacific dolphin research cruises													M		S	M	S	M		

TITLE		-> Oceanic Fisheries Evaluation				
TASK NUMBERS ->		8L1A6A43	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS						
DIRECT LABOR		115.0				TOTAL
PERS. BENEFITS		24.2				115.0
TRAVEL		11.9				24.2
TRANSPORTATION		0				11.9
RENT, COMM., UTIL.		6.5				0
PRINT/REPROD.		1.0				6.5
CONTRACTS		0				1.0
SUPPLIES/MATERIAL		3.5				0
EQUIPMENT		0				3.5
GRANTS		0				0
TOTALS		162.1				162.1
FTE (FTP)		2				2
FTE (OTFTP)						

STRATEGIC PLAN

GOAL # OBJ #

VESSELS

SEA DAYS ALLOC.

NOAA	CHARTER	FREE

CROSS REFERENCES

APPROVAL SIGNATURE

Richard A Neef

HQ CONTACT

PERSONNEL SCHEDULE

SWC

421

3 of 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Gary Sakagawa		Fishery Biologist (Res. Administration)	GM15	100	8L1A6A43
Karen Handschuh		Secretary	GS6/8	100	8L1A6A43

TITLE	->	Pelagic Ecosystem Modelling			
TASK NUMBERS ->	8L1A6A44	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS		TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR	106.2				
PERS. BENEFITS	22.3				
TRAVEL	4.2				
TRANSPORTATION	0				
RENT, COMM., UTIL.	0.2				
PRINT/REPROD.	0.3				
CONTRACTS	0				
SUPPLIES/MATERIAL	0.5				
EQUIPMENT	0				
GRANTS	0				
TOTALS	133.7				
FTE (FTP)	2.0				
FTE (OTFTP)					

TOTAL

106.2

22.3

4.2

0

0.2

0.3

0

0.5

0

0

133.7

2.0

APPROVAL SIGNATURE

Richard A. Neal

HQ CONTACT

STRATEGIC PLANGOAL #OBJ #VESSELS
SEA DAYS ALLOC.

NOAA

CHARTER

FREE

CROSS REFERENCES

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
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Pelagic Ecosystem Modelling	La Jolla	2.0	133.7	Pierre Kleiber	Info.Anal&Dissemination
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A. PROBLEM STATEMENT/OBJECTIVE: This task evaluates current stock assessment models and techniques for accuracy and relevancy of information for management advice of pelagic fisheries. It also assists in designing and conducting stock assessments and in planning and evaluating sampling projects, particularly for the western Pacific tropical tuna fisheries. Accomplishments of this task contribute to the NMFS objectives of maintaining currently productive fisheries and improving the effectiveness of international fisheries relationships.

B. METHODOLOGY/APPROACH: The principal method is to use conventional and simulation models. The models are used for stock assessments and to pinpoint areas where lack of ecological understanding might lead to deficiencies in proper resource evaluation and management advice. They are also used to simulate conditions when accurate data on such conditions are lacking or when "what if" scenarios need to be explored for evaluating management options. The results are then used to guide the evaluation of assessment results, the collection of additional or more reliable data, and the preparation of management advice.

C. PRODUCT/SERVICES: The products are scientific publications, internal reports, and oral presentations which are disseminated to parties, including NMFS scientists and managers, U.S. commissioners and Fishery Management Council members. Services include consultation with officials and scientists to review results and to guide followup activities.

D. CLIENTS: The clients are mostly U.S. fishery management professionals involved in execution of the FMCA, MMPA, and tuna treaties as well as resource scientists in various domestic, foreign and international institutions and agencies.

PERSONNEL SCHEDULE

3 of 4

431

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
P. Kleiber C. Salvado	FisheryBiol. (Res.) Operations Res. Anal.	GM13 GS12/4	100 100	8L1A6A44 8L1A6A44	

FMC	REF. NO.	PAGE
SWC	500	1 OF 4

TITLE	->	Division Chief				
TASK NUMBERS ->	8L1C4V50					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4		
DIRECT LABOR	102.0				TOTAL	
PERS. BENEFITS	21.4				102.0	
TRAVEL	5.3				21.4	
TRANSPORTATION	0				5.3	
RENT, COMM., UTIL.	0				0	
PRINT/REPROD.	0.5				0	
CONTRACTS	0				0.5	
SUPPLIES/MATERIAL	1.4				0	
EQUIPMENT	0				1.4	
GRANTS	0				0	
TOTALS	130.6				130.6	
FTE (FTP)	2.0				2.0	
FTE (OTFTP)	0				0	

Richard A. Nod

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN	
GOAL #	OBJ #
1	3
2	1, 2, 3, 5
3	1, 3
4	1, 2, 3, 4
7	1, 2, 3

VESSELS	
# SEA DAYS ALLOC.	

NOAA	CHARTER	FREE
0	0	0

CROSS REFERENCES	
510, 520, 530,	
540, 550	

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Division Chief	La Jolla	2.0	130.6	Robert Brownell	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task involves coordinating the activities and disseminating the results of all Marine Mammal Division programs. It provides information on biological impacts of management practices by NMFS as mandated by the Marine Mammal Protection act (MMPA) and subsequent revisions and Endangered Species Act (ESA).

B. METHODOLOGY/SERVICES: Attending and conducting meetings and workshops regarding marine mammal populations in addition to providing reports on the results of research conducted by the Marine Mammal Division.

C. PRODUCT/SERVICE: Products of the program are used by NMFS and other responsible organizations charged with drafting management measures for the U.S. and international fisheries.

D. CLIENTS: The information generated is used by NMFS to evaluate management options for protection of the California pinnipeds, and cetaceans as well as ETP dolphin stocks as prescribed by the MMPA and for the management of U.S. fisheries. Up-to-date information on the condition of these marine mammal populations is a key requirement for the evaluation and selection of management options.

E. CONTRACTS:

PERSONNEL SCHEDULE

3 of 4

500

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
BROWNELL, Robert		Division Chief	GM/15	100%	8L1C4V50
GILMORE, Julie		Secretary	GS/6/2	100%	8L1C4V50

TITLE		->		Dolphin Stock Assessment			
TASK NUMBERS ->		8L1A6V50	8L1C4V51				
OBJECT CLASS		TASK #1	TASK #2	TASK #3	TASK #4		
		Survey Op. Assessment					
DIRECT LABOR		37.4	92.0			TOTAL	
PERS. BENEFITS		29.6	19.3			129.4	
TRAVEL		3.9	1.6			48.9	
TRANSPORTATION		0	0			5.5	
RENT, COMM., UTIL.		0	0			0	
PRINT/REPROD.		0	0			0	
CONTRACTS		0	0			0	
SUPPLIES/MATERIAL		7.3	0.5			1.5	
EQUIPMENT		0	0			0	
GRANTS		0	0			0	
TOTALS		78.2	113.4			191.6	
FTE (FTP)		0.3	1.0			1.3	
FTE (OTFTP)		1.5	1.33			2.83	

STRATEGIC PLAN

GOAL #
4

OBJ #
1,2,3,4

7

1,2,3

VESELS

SEA DAYS ALLOC.

NOAA

60

CHARTER

0

FREE

0

CROSS REFERENCES

500,520,530

540,550

APPROVAL SIGNATURE

HQ CONTACT

Richard A. Kopf

TITLE

PRIN. FAC.

FTE

\$K

UNIT LEADER

LINE ITEM NAME

Dolphin Stock Assessment

La Jolla

4.13

191.6

Tim Gerrodette

Resource Info. Anal.

A. PROBLEM STATEMENT/OBJECTIVE: This task involves research on dolphins associated with the eastern tropical Pacific Ocean (ETP) tuna fishery. It provides information on biological impacts of management practices by NMFS as mandated by the Marine Mammal Protection act (MMPA). Congressional action reauthorizing the MMPA, specified a monitoring program to determine trends in dolphin populations. This task is responsible for producing the experimental design to be used in the monitoring program and a series of annual surveys using NOAA research vessels and an aircraft. It specifies data to be collected and, after they have been collected, analyses these data to determine the trends in dolphin abundance, and to evaluate possible causes for the trends.

B. METHODOLOGY/SERVICES: The main focus of the task in FY94 is to conduct research vessel surveys of ETP dolphins, participate in data collection, complete data analyses and present findings. This will include completing analyses of data collected during 1986, 1987, 1988, 1989, 1990, 1992, and 1993 completing computer programs for data analyses, and establishing procedures for reviewing results before release to the general public. In addition, the task will compare two methods of monitoring population change by comparing data from tuna vessel with data from research vessels.

C. PRODUCT/SERVICE: Products of the program are used by NMFS offices charged with drafting management measures for the U.S. and international tuna fishery in the ETP.

D. CLIENTS: The information generated is used by NMFS to evaluate management options for protection of the ETP dolphin stocks as prescribed by the MMPA and for the management of the annual U.S. fishery for tuna in the ETP. Up-to-date information on the condition of the dolphin populations is a key requirement for the evaluation and selection of management options.

E. CONTRACTS:

PERSONNEL SCHEDULE

SWC

510

3 of 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Gerrodette, Timothy		Sup. Op. Res. Anal.	GM/14	100	8L1C4V51
Cotton, Jim		Bio. Tech. (TERM)	GS/7/2	33	8L1A6V50
Benson, Scott		Bio. Tech. (TERM)	GS/7/2	33	8L1A6V50

MILESTONE ARRAY

MILESTONE ARRAY				SIGNIFICANT MILESTONE DESCRIPTIONS																FY 93			94			95		
TASK #	MAE	SEQ																	1	2	3	4	1	2	1	2		
8L1A6V50	A	1	Complete 1993 PODS survey																x									
8L1C4V51	M	2	Submit manuscript to IWC on 1992 PODS survey																	X								
8L1C4V51	M	3	Submit cruise Report, and data report																		x	x						
8L1A6V50	A	4	Initiate planning, start 1994 Marine Mammal Survey																	x	x	x						
8L1A6V50	M	5	Present working paper to IWC on 1993 PODS survey																				x					
8L1C4V51	A	6	Develop mark-recapture methods to be used in abundance estimation for cetaceans																	x	x	x	x					

SWC

520

1 OF 4

TITLE ->		Population Identification Program			
TASK NUMBERS ->	8L1A5V51	8L1A5V52	TASK #3	TASK #4	
OBJECT CLASS	TASK #1	TASK #2			
	PHOTOG	BIOLOGY			
DIRECT LABOR	139.1	137.9			TOTAL 277.0
PERS. BENEFITS	34.5	29.0			63.5
TRAVEL	2.3	Ø 1.0			3.3
TRANSPORTATION	0	0			0
RENT, COMM., UTIL.	0	0			0
PRINT/REPROD.	0	0			0
CONTRACTS	39.9	0			49.9
SUPPLIES/MATERIAL	5.4	0.1			5.5
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS	221.2	166.9 168.0			388.1 389.2
FTE (FTP)	4.0	3.0			7.0
FTE (OTFTP)	0	0			0

APPROVAL SIGNATURE

Richard A Neal

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

4 2, 3, 4

VESSELS
SEA DAYS ALLOC.

NOAA

CHARTER

FREE

CROSS REFERENCES
500, 530, 540, 550

TITLE		PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Population Identity Program		La Jolla	7.0	388.1	Andrew Dizon	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary objective of this program is to use information on genetics, distribution, morphology and other biological measures to determine the stock structure of dolphins in the ETP and other cetaceans. This program is also responsible for photographing schools of dolphin during the research vessel surveys. These photogrammetric counts are used to estimate school dolphin school sized and to calibrate research vessel observers. Photogrammetric techniques are also used to collect data for morphometric and demographic measurements of stock discreteness. Additionally, this program is responsible for the curation and analysis of biological specimens collected aboard U.S. fishing vessels and for managing the Southern CA. Stranding Network.

B. METHODOLOGY/APPROACH: Specifically, this program will be using a variety of techniques for the analyses of marine mammal tissues in order to determine the stock structure of populations that interact with U.S. Fisheries. It also uses state-of-the-art aerial photogrammetric techniques for stock structure studies and for school-size calibration. This year, this program will continue studying how sex ratios and other reproductive and physiological parameters respond to various levels of fishing pressure, population size, or forage density. As in years past, this program is responsible for processing, curating and archiving dolphin biological specimens. Estimates of reproductive rates and other vital rates and other vital rates; of indexes that reflect fishing pressure, density, or condition; and of stock structure are based primarily on specimens and data collected by NMFS and IATTC technicians aboard commercial fishing and research vessels.

C. PRODUCTS/SERVICES: The products are used, in connection with the information on population size and density, to meet the mandated requirements of the Marine Mammal Protection Act concerning the gathering of information for determination of "significantly impacted" and "impacted by whom or what" as well as providing information on trends in relative abundance of stocks that interact with the fisheries to the Secretary.

D. CLIENTS: Products are used by other tasks in the Division as well as other groups in NMFS and in the industry charged or involved with management measures for exploited marine mammal populations.

E. CONTRACTS: PODS93 HELO CHARTER - NOAA AOC

||

PERSONNEL SCHEDULE

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Dizon, Andrew		Fishery Biologist	GM/14	100	8L1A5V52
Perryman, Wayne		Fishery Biologist	GS/13/1	100	8L1A5V51
Chivers, Susan		Fishery Biologist	GS/12/1	100	8L1A5V52
Gilpatcrick, James		Fishery Biologist	GS/9/5	100	8L1A5V51
Peltier, Kelly		Fishery Biologist	GS/7/2	100	8L1A5V52
Lynn, Morgan		Fishery Biologist	GS/9/1	100	8L1A5V51
Westlake, Robin (Term)		Fishery Biologist	GS/7/4	100	8L1A5V51

SIGNIFICANT MILESTONE DESCRIPTIONS

[illegible]

TITLE		->	Dolphin Ecology Program			
TASK NUMBERS ->		8L1A6A53				
OBJECT CLASS		TASK #1				TOTAL
		Ecology				
DIRECT LABOR		209.6				209.6
PERS. BENEFITS		51.1				51.1
TRAVEL		8.3				8.3
TRANSPORTATION		0				0
RENT, COMM., UTIL.		0				0
PRINT/REPROD.		0				0
CONTRACTS		0				0
SUPPLIES/MATERIAL		0.5				0.5
EQUIPMENT		0				0
GRANTS		0				0
TOTALS		269.5				269.5
FTE (FTP)		4.75				4.75
FTE (OTFTP)		0.15				0.15

STRATEGIC PLAN

GOAL #	OBJ #
3	1, 3
4	2

VESSELS

SEA DAYS ALLOC.

NOAA	CHARTER	FREE
0	0	0

CROSS REFERENCES

500, 510, 520,
540, 550

APPROVAL SIGNATURE
Richard A Neaf

HQ CONTACT

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
DOLPHIN ECOLOGY PROGRAM	La Jolla	4.95	269.5	Steve Reilly	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary objective of this program is to collect oceanographic data relating to dolphin habitat. During 1994 the main focus will be on the northern stock of common dolphin and California marine mammals. The program will also apply habitat information to reduce bias and/or increase precision into the dolphin population trend analysis, and to incorporate habitat data into tuna vessel observer data analysis for trend analysis.

B. METHODOLOGY/APPROACH: The program is responsible for collecting and analyzing environmental data from shipboard oceanographic samples and instruments, satellite imagery and other sources as available will be used to describe the environment each year and the relative abundance index will be normalized to "average" conditions. In addition, environmental data will be used to standardize encounter rate data collected by observers on tuna vessels.

C. PRODUCT/SERVICES: The data and results will be used in combination with data from the Population Identity Program and from the Dolphin Stock Assessment Program to determine whether the relative number of dolphins in the ETP is increasing or decreasing, and if decreasing, to determine if the observed decline is at least in part related to the U.S. tuna fleet. A similar product will be provided in support of coastal California cetacean assessments.

D. CLIENTS: Data will be used by SWC personnel to determine trends in the relative abundance of dolphin stocks in the ETP. Final reports will be submitted to the SWR office and the Office of Protected Resources, and will be used in developing a management program for ETP dolphins and California Marine Mammals.

E. CONTRACTS:

PERSONNEL SCHEDULE			CURRENT YEAR OPERATING PLAN			3 of 4	
			SWC		530		
# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #			
Reilly, Stephen Fiedler, Paul Holland, Robert Pitman, Robert Philbrick, Valerie	Fishery Biologist	GM/14	100	8L1A6A53			
	Oceanographer	GM/13	100	8L1A6A53			
	Comp. Prog. Anal.	GS/11/2	100	8L1A6A53			
	Biol. Tech. Wildl.	GS/9/4	75	8L1A6A53			
	Oceanographer	GS/9/2	100	8L1A6A53			

FMC	REF. NO.	PAGE
SWC	540	1 OF 4

TITLE		->	Coastal Marine Mammal Program			
TASK NUMBERS ->			8L1A5V54			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL	
	CMMP					
DIRECT LABOR	140.0				140.0	
PERS. BENEFITS	30.4				30.4	
TRAVEL	1.7				1.7	
TRANSPORTATION	0				0	
RENT, COMM., UTIL.	0				0	
PRINT/REPROD.	0				0	
CONTRACTS	0				0	
SUPPLIES/MATERIAL	0.5				0.5	
EQUIPMENT	0				0	
GRANTS	0				0	
TOTALS	172.6				172.6	
FTE (FTP)	3.0				3.0	
FTE (OTFTP)	0				0	

Richard A. Reed

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #	OBJ #
2	5
4	1, 2, 3, 4, 5
7	1, 2

VESSELS
SEA DAYS ALLOC.

NOAA	CHARTER	FREE
0	0	0

CROSS REFERENCES
500,510,530,550

EXECUTIVE SUMMARY

SWC

540

2 of 4

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Coastal Marine Mammal Prg.	La Jolla	3.0	172.6	Jay Barlow	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates changes in coastal marine mammal populations associated with human activities (e.g., research, commercial fisheries, etc.). The task provides information so that the status of stocks of certain species can be determined, allowing NMFS to fulfill requirements under the Marine Mammal Protection Act.

B. METHODOLOGIES/APPROACH: During FY94, ship surveys will be used (in collaboration with the Dolphin Stock Assessment Program) to estimate the abundance of whales and dolphins in California. Aerial photographic surveys will be used to monitor the abundance of California seal lions and elephant seals. Aerial sighting surveys will be used to study the seasonal abundance of cetaceans in the Southern California Bight. Photo-identification studies will be initiated for blue, humpback and killer whales.

C. PRODUCTS/SERVICES: The information produced by this Program will primarily be used by NMFS management to 1) develop actions to protect marine mammals in California from unnecessary or excessive fishery mortality; 2) determine allowable takes for display, research and fisheries; and 3) evaluate the effects of incidental take of marine mammals.

D. CLIENTS: Products provided by this Program are used by NMFS offices which are responsible for controlling the take of marine mammals. Information is also used by the U.S. Navy to select sites for vessel/missile testing to minimize their effect on marine mammals.

E. CONTRACTS:

PERSONNEL SCHEDULE

SWC

540

3 of 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Barlow, Jay		Sup. Ops. Res. Anal.	GM/14	100	8L1A5V54
Forney, Karin		Ops. Res. Anal.	GS/11/1	100	8L1A5V54
Lowry, Mark		Fishery Biologist	GS/11/3	100	8L1A5V54

CURRENT YEAR OPERATING PLAN
FY 1994

FMC	REF. NO.	PAGE
SWC	550	1 OF 4

TITLE	->	Dolphin-Safe			
TASK NUMBERS ->	8L1ADTPA	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS	DS				
DIRECT LABOR	271.7				
PERS. BENEFITS	61.0				
TRAVEL	2.2				
TRANSPORTATION	0				
RENT, COMM., UTIL.	0				
PRINT/REPROD.	0				
CONTRACTS	115.0				
SUPPLIES/MATERIAL	2.5				
EQUIPMENT	0				
GRANTS	0				
TOTALS	452.4				
FTE (FTP)	6.0				
FTE (OTFTP)	0.6				

TOTAL
271.7
61.0
2.2
0
0
0
115.0
2.5
0
0
452.4
6.0
0.6

STRATEGIC PLAN	
GOAL #	OBJ #
1	3
2	1, 2, 3, 5
4	1, 5
7	1, 2, 3

VESSELS		
# SEA DAYS ALLOC.		
NOAA	CHARTER	FREE
30	0	0

CROSS REFERENCES
500,510,520,530

APPROVAL SIGNATURE

Richard A. Neel

HQ CONTACT

EXECUTIVE SUMMARY

2 of 4

SWC

550

TITLE

PRIN. FAC.

FTE

\$K

UNIT LEADER

LINE ITEM NAME

DOLPHIN SAFE RESEARCH PROG.

La Jolla

6.6

452.4K

Liz Edwards

Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary objective of this task is to develop alternative fishing methods for tuna fishing in the ETP that do not result in dolphin mortality. The research supported by this task was reviewed by a panel of experts and has been published in the Federal Register with requests for comments during both FY92 and FY93. Much of the work described in the strategic plan for dolphin safe fishing methods will be done jointly with IATTC. This task also investigates patterns in dolphin mortality from the U.S. and non U.S. fleets.

B. METHODOLOGIES/APPROACH: During FY94, projects initiated during previous years will be continued, and new projects will be initiated. Continuing projects include contracts with IATTC to study tuna-dolphin behavior, food habits, and oceanography; field trials of LIDAR equipment; assisting with skipper request for FAD equipment, solicitation and review of SBIR (Small Business Innovative Research) proposals; development of a Dolphin-Safe Research Proposals Data Base; and development of research priorities by a research planning group.

C. PRODUCTS/SERVICES: Annual Reports and Contract Reports.

D. CLIENTS: Products are provided to the SWR, F/PR. State Department, tuna industry, environmental community, and IATTC.

E. CONTRACTS: Open - 115.0K

PERSONNEL SCHEDULE

SWC

550

3 of 4

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Edwards, Elizabeth		Fishery Biologist	GM/13	100	8L1ADTPA
Oliver, Charles		Computer Programmer	GS/12/8	100	8L1ADTPA
Myrick, Albert		Wildlife Biologist	GS/13/5	100	8L1ADTPA
Majors, Anthony		Fishery Biologist	GS/9/10	100	8L1ADTPA
Sisson, Joyce (Term)		Wildlife Biologist	GS/8/2	100	8L1ADTPA
Armstrong, Wes (Term)		Fishery Biologist	GS/7/3	100	8L1ADTPA

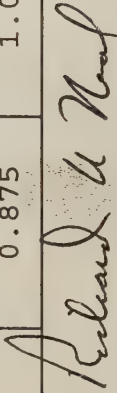
MILESTONE ARRAY

MILESTONE ARRAY												
MILESTONE ARRAY			SIGNIFICANT MILESTONE DESCRIPTIONS									
TASK #	MAE	SEQ										
8L1AST55	A	1	Conduct at-sea research on tracking of tunas and dolphins									
8L1AST55	M	2	Complete report on LIDAR studies conducted during FY93									
8L1AST55	E	3	Coordinate contracted studies with IATTC on oceanography, food habits, and tracking									
8L1AST55	M	4	Conduct and report on results of Research Planning Workshop									
8L1AST55	A	5	Coordinate responses to skipper requests									
8L1AST55	E	6	Prepare annual report on U.S. skipper performance									
8L1AST55	E	7	Prepare report on Non-ETP tuna oceanography									

FMC	REF. NO.	PAGE
SWC	601	1 OF 7

TITLE		Antarctic Ecosystem Research Group			
TASK NUMBERS ->	Ecosystem	Krill Asse	Pop. Dyn.	Operations	
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1A6H60	8L1A6H61	8L1A6H62	8L1A6H63	
DIRECT LABOR	109.3	98.5	62.2	30.4	300.4
PERS. BENEFITS	22.3	20.7	13.1	4.9	61.0
TRAVEL	18.0	1.5	0.0	70.5	90.0
TRANSPORTATION	0.0	0.0	0.0	9.0	9.0
RENT, COMM., UTIL.	4.0	2.0	0.0	4.5	10.5
PRINT/REPROD.	0.0	0.0	0.0	3.0	3.0
CONTRACTS	405.0	0.0	0.0	12.0	417.0
SUPPLIES/MATERIAL	0.0	10.0	0.0	5.0	15.0
EQUIPMENT	0.0	25.0	0.0	10.0	35.0
GRANTS	0.0	0.0	0.0	185.0	185.0
TOTALS	558.6	157.7	75.3	334.3	1125.9
FTE (FTP)	2.0	1.0	1.0	0.0	4.0
FTE (OTFTP)	0.0	0.875	1.0	1.0	2.875

APPROVAL SIGNATURE



HQ CONTACT

STRATEGIC PLAN

GOAL #2 OBJ #2

VESSELS
SEA DAYS ALLOC.

NOAA CHARTER FREE

122 0

CROSS REFERENCES

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Antarctic Eco. Res. Group	La Jolla, CA	6.875	1125.9	R. Holt	Resource Management

A. PROBLEM STATEMENT/OBJECTIVES:

The U.S. Antarctic Marine Living Resources (AMLR) program provides information needed to formulate U.S. policy on conservation and international management of resources living in the oceans surrounding Antarctica. The program was established by Public Law 98-623 to provide advice to the U.S. delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR), part of the Antarctic Treaty System. The AMLR program is managed by the Antarctic Ecosystem Research Group located at the Southwest Fisheries Science Center.

B. METHODOLOGY/APPROACH:

The AMLR program will be divided into four tasks: (1) Ecosystem Monitoring will coordinate and review field research on krill predators, conduct AMLR Interagency Review Panel and pre-CCAMLR meetings, coordinate scientific presentations and participation at CCAMLR meetings, and update the Program Development Plan. (2) Krill Stock Assessment will conduct acoustic surveys of krill, prepare working papers and manuscripts, and participate in CCAMLR Krill Working Group Meeting. (3) Population Dynamics will review data and papers on the status of fish stocks submitted to CCAMLR, collect data and prepare analysis on Antarctic crab populations, and participate in CCAMLR Stock Assessment meeting. (4) Field operations will design, coordinate and conduct activities undertaken during the field season in accordance with the long-range Antarctic research strategy.

C. PRODUCT/SERVICES:

Reports and technical papers are prepared to meet U.S. obligations to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR). Scientific papers are prepared for publication. AERG staff and invited consultants will participate in CCAMLR working groups and other international meetings to address conservation issues and assess relevant scientific information.

D. CLIENTS:

Information provided by the tasks will be used by the State Department to formulate U.S. positions on Antarctic resource conservation, by the U.S. AMLR program to adjust its long-range research strategy, by the CCAMLR Scientific Committee, and by other governments and researchers working in the Antarctic.

E. COOPERATIVE AGREEMENTS, INTERAGENCY TRANSFERS, AND CONTRACTS:

Phytoplankton studies, physical oceanography studies, krill demographic studies, and krill predator studies.

PERSONNEL SCHEDULE

3 of 7

601

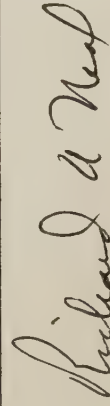
SWC

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Rennie S. Holt	Fishery Biologist	GM/15	100	8L1A6H60
2. Jane E. Rosenberg	Biologist	GS/9	100	8L1A6H60
3. Roger P. Hewitt	Fishery Biologist	GM/14	100	8L1A6H61
4. David A. Demer	Ocean Acoustic Eng.	GS/9 (Temporary)	87.5	8L1A6H61
5. Stephanie N. Sexton	Operations Res. Analyst	GS/11	100	8L1A6H62
6. George M. Watters	Fishery Biologist	GS/7 (Temporary)	100	8L1A6H62
7. David Greene	Biological Technician	GS/7 (Temporary)	100	8L1A6H63

MILESTONE ARRAY														
TASK #			MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS									
					FY 94								95	96
					1	2	3	4	1	2	1	2		
8L1A6H60			E	1	Conduct pre-CCAMLR meetings.									
8L1A6H60			M	2	Coordinate scientific presentations and participation at CCAMLR Working Groups, Scientific Committee, and Commission meetings.								X	X
8L1A6H60			A	3	Formulate US advice regarding long-term direction CCAMLR should pursue to manage Antarctic crab, fish, and krill fisheries.								X	X
8L1A6H60			A	4	Coordinate predator/prey modelling studies.								X	X
8L1A6H60			A	5	Coordinate land-based and pelagic predator studies conducted by NMML.								X	X
8L1A6H60			A	6	Coordinate Antarctic bird research at Palmer Station conducted by Montana State University.								X	X
8L1A6H60 CANCELLED			M	7	Conduct research on US crab boat and present analyses of data to CCAMLR Working Group on Stock Assessment and Scientific Comm.								X	X
8L1A6H60			M	8	Participate in CCAMLR scientific observer program as observer aboard Japanese vessel; submit report of data.								X	X
8L1A6H60 CANCELLED			E	9	Participate in US GLOBEC program planning, as appropriate.								X	X
8L1A6H60			A	10	Manage AERG program budget, personnel, and research activities								X	X
8L1A6H60			A	11	Review Program priorities, formulate long-term objectives, and complete Program Development Plan.								X	X

TITLE ->		Director's Office & Admin Operating Budget				
TASK NUMBERS ->		9WGN4070	9WGN4071			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL	
	Dir.	Admin.				
DIRECT LABOR	102.2	164.9			267.1	
PERS. BENEFITS	17.5	28.3			45.8	
TRAVEL	88.8	0.5			89.3	
TRANSPORTATION	15.0	13.5			28.5	
RENT, COMM, UTIL	0.0	59.0			59.0	
PRINT/REPROD.	0.0	0.0			0.0	
CONTRACTS	3.2	33.4			36.6	
SUPPLIES/MATERIAL	2.0	10.4			12.4	
EQUIPMENT	0.0	2.0			2.0	
GRANTS	0.0	0.0			0.0	
TOTALS	228.7	312.0			540.7	
FTE (FTP)	1.7	5.0			6.7	
FTE (OTFTP)	0.0	0.0			0.0	

APPROVAL SIGNATURE



HQ CONTACT

STRATEGIC PLAN	
GOAL #	OBJ #
MGT.	
VESSELS	
# SEA DAYS ALLOC.	
0	
NOAA	CHARTER
0	FREE
CROSS REFERENCES	

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

SWC

700

TITLE

PRIN. FAC.

FTE

\$K

UNIT LEADER

LINE ITEM NAME

D.O. Office & Admin.

Hon. Lab.

6.7

540.7

M. Laurs

Management Fund

- A. **PROBLEM STATEMENT/OBJECTIVE:** To provide overall management and administration of both human and fiscal resources for the Honolulu Laboratory.
- B. **METHODOLOGY/RESEARCH:** Provide guidance for overall operations and scientific program of Honolulu Laboratory. Maintain and improve internal controls and streamline operation procedures.
- C. **PRODUCT/SERVICES:** Provide efficient day-to-day administration of the Honolulu Laboratory in areas of procurement, personnel and facility maintenance; flow of information/products to outside agencies and the public.
- D. **CLIENTS:** Southwest region, Western Pacific regional fisheries management council, fishing industry, general public.
- E. **CONTRACTS:** Contracting of janitorial is required for the health and safety of staff.

CURRENT YEAR OPERATING PLAN

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Boehlert, George Laurs, Michael	Fishery Biologist	GM-15/3	7	9WGN4070
2. Yukihiro, Carole	Fishery Biologist	GM-15/7	62	9WGN4070
3. Dong, Bonnie	Secretary	GS-7/10	100	9WGN4070
4. Wong, Gloria	Budget Assistant	GS-7/6	100	9WGN4071
5. Hammonds, Lewis	Adm. Asst	GS-5/3	100	9WGN4071
6. Kuromoto, Janine	Maint. Worker	WG-7/1	100	9WGN4071
7. Yee, Karena	Adm. Support Clerk	GS-5/3	100	9WGN4071
	Admin. Officer	GS-11/6	100	9WGN4071

CURRENT YEAR OPERATING PLAN

MILESTONE ARRAY

			FY 93										94			95					
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS										1	2	3	4	1	2	1	2	
9WGN4070	A	1	Direct and oversee Honolulu Laboratory's operation, including facilities.										0	-	-	-	-	-	-	-	S
	A	2	Provide guidance for overall scientific program of Honolulu Laboratory.										0	-	-	-	-	-	-	-	S
	A	3	Serve as focus for communication of Honolulu Laboratory scientific programs with outside agencies and the public.										0	-	-	-	-	-	-	-	S
	A	4	Allocate funding and personnel to achieve goals of NMFS and the Honolulu Laboratory.										0	-	-	-	-	-	-	-	S
	A	5	Coordinate Honolulu Laboratory assistance to University of Hawaii for development of graduate program in fisheries.										0	-	-	-	-	-	-	-	S
	A	6	Interact with WPRFMC to ensure program continuity and development.										0	-	-	-	-	-	-	-	S
9WGN4071	A	7	Provide overall management and administrative support in the areas of budget, contracting, and procurement for the Honolulu Laboratory.										0	-	-	-	-	-	-	-	S
	A	8	Manage and maintain facility and grounds.										0	-	-	-	-	-	-	-	S
	A	9	Perform all administrative functions associated with personnel services.										0	-	-	-	-	-	-	-	S
	A	10	Serve as principal contact with Western administrative support center.										0	-	-	-	-	-	-	-	S
	A	11	Ensure compliance with all pertinent governmental rules and regulations.										0	-	-	-	-	-	-	-	S

DATE	February 17, 1994
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SWC	701
	1 OF 5

TITLE ->	ITS & Scientific and Library Services			
TASK NUMBERS ->	8L1C1A70	8L1C1A71	8L1C1C72	
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TOTAL
	LIB/PUBS	ITS	IT-95	
DIRECT LABOR	114.8	153.9	49.5	318.2
PERS. BENEFITS	19.7	26.4	8.5	54.6
TRAVEL	0.0	0.0	0.0	0.0
TRANSPORTATION	0.0	1.0	0.0	1.0
RENT, COMM, UTIL	0.0	3.0	0.0	3.0
PRINT/REPROD.	0.0	0.0	0.0	0.0
CONTRACTS	7.0	0.0	0.0	7.0
SUPPLIES/MATERIAL	18.1	4.4	0.0	22.5
EQUIPMENT	0.0	1.6	0.0	1.6
GRANTS	0.0	0.0	0.0	0.0
TOTALS	159.6	190.3	58.0	407.9
FTE (FTP)	4.0	3.0	1.0	8.0
FTE (OTFTP)	0.0	0.8	0.0	0.8

STRATEGIC PLAN		
GOAL #		OBJ #
ALL		

VESSELS		
# SEA DAYS ALLOC.		
0		
NOAA	CHARTER	FREE
0		

CROSS REFERENCES	

Richard A. Noel

HQ CONTACT

APPROVAL SIGNATURE

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWC	701	2 OF 5

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Information & Technical Svc.	Honolulu, Hi.	8.8	407.9	D. Tieman	Resource Information

- A. **PROBLEM STATEMENT/OBJECTIVES:** To provide computer, communication, library, and publication support services for the Honolulu Laboratory's management, research, and administrative staff to efficiently and effectively meet NMFS' mission in the management of living marine resources.
- B. **METHODOLOGY/APPROACH:** Maintenance of the Local Area Network (LAN) and expansion of the telecommunication capabilities with other sites such as University of Hawaii and National Weather Service; procure and provide user training on new or improved computer resources, and provide for the security and authorized use of these resources. Maintenance of the on-line library system; procurement of current scientific and computer publications; typing, filing, proof reading, and development of graphics for scientific publications.
- C. **PRODUCTS/SERVICES:** Products are provided in the form of typed manuscripts, correspondence, current scientific and computer reference materials, network access, hard copy and computer data information and hardware maintenance. Consultation and training services are provided in related fields.
- D. **CLIENTS:** All members of the Honolulu Lab, the Pacific Area Office of the Southwest Region, and various federal, state and local agencies receive products, and services provided by Information and Technical Services task.
- E. **CONTRACTS:** Contracts for book bindings and translations will continue to be required.

FORM 3		NMFS		PAGE	
PERSONNEL SCHEDULE		CURRENT YEAR OPERATING PLAN		REF. NO.	
		FMC		701	
		SWC		3 OF 5	

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Tieman, Donald	Supv Comp Sys Analyst	GS-12/5	100	8L1C1A71
2. Higuchi, Wayde	Computer Programmer	GS-11/1	100	8L1C1A71
3. Uyeda, Richard	Computer Programmer	GS-6/3	100	8L1C1A71
4. Crusing, Frank	Computer Specialist	GS-12/1	100	8L1C1C72
5. Abbott-Stout, Sandra	Librarian	GS-9/3-4	100	8L1C1A70
6. Beasley, Judith	Lead Editorial Asst	GS-7/3-4	100	8L1C1A70
7. Yamaguchi, Deborah	Editorial Clerk	GS-5/4	100	8L1C1A70
8. Fiust, Francine	Editorial Clerk	GS-4/10	96	8L1C1A70
PTP:				
1. Pappas, Janet	Computer Programmer	GS-9/4	80	8L1C1A71

FMC	REF. NO.	PAGE
SWC	701	5 OF 5

MILESTONE ARRAY

MILESTONE ARRAY			FY 94 95 96											
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS											
8L1C1A70 CONT'D	A	12	Provide editorial services to enhance scientific writing capabilities of Honolulu Laboratory staff.											
	A	13	Provide library and scientific reference service to research programs.											
	A	14	Assist and coordinate translation of foreign scientific publications.											
	A	15	Computerize card catalogue of existing holding.											

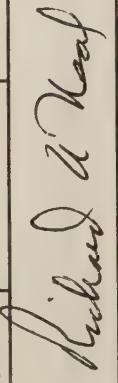
TITLE ->		Pelagic Resource Modeling Program			
TASK NUMBERS ->	8L1A7A70	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	164.6				164.6
PERS. BENEFITS	28.2				28.2
TRAVEL	1.5				1.5
TRANSPORTATION	0.0				0.0
RENT, COMM, UTIL	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	3.4				3.4
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS	197.7				197.7
FTE (FTP)	2.8				2.8
FTE (OTFTP)	0.0				0.0

STRATEGIC PLAN	
GOAL #	OBJ #
2	1, 2

VESSELS	
# SEA DAYS ALLOC.	
0	
NOAA	CHARTER
0	FREE

CROSS REFERENCES	

APPROVAL SIGNATURE



HQ CONTACT

FORM 2		NMFS			FMC		REF. NO.		PAGE	
EXECUTIVE SUMMARY		CURRENT YEAR OPERATING PLAN			SWC		720		2 OF 4	
TITLE		PRIN. FAC.	FTE	\$K	UNIT LEADER		LINE ITEM NAME			
Pelagic Resource Modeling (new title)		Hon. Lab.	2.75	197.7	J. Wetherall		Resource Information			
A. PROBLEM STATEMENT/OBJECTIVES: Program conducts numerical analysis and modeling in relation to pelagic resource management issues; program provides quantitative support for Hawaii marine turtle program, in particular for population monitoring and stock assessment; program manages JIMAR project for design of yellowfin tuna tagging experiments; program conducts blue shark research in collaboration with NRIFS, Shimizu, Japan; program advises JIMAR project to develop NPTZ fisheries and oceanographic database; program advises JIMAR project to develop statistical guidelines for marine turtle bycatch monitoring in Hawaii longline fishery. B. METHODOLOGY/APPROACH: Program constructs, tests, and applies mathematical models and statistical procedures to fishery statistics, life history data, and survey results. C. PRODUCTS/SERVICES: Products include administrative and technical reports, workshop papers, and manuscripts for publication in peer-reviewed scientific literature. D. CLIENTS: Program provides scientific guidance for NMFS fishery managers and WPRFMC. Program provides quantitative advice to U.S. Fish and Wildlife Service regarding annual green turtle nesting surveys and population monitoring. E. CONTRACTS: None.										

FORM 1
RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

DATE February 17, 1994

FMC REF. NO. PAGE

SWC 721 1 OF 4

TITLE -->	Pelagic Fishery Dynamics Program			
	TASK #1	TASK #2	TASK #3	TASK #4
TASK NUMBERS -->	8L1A6A71			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
				TOTAL
DIRECT LABOR	112.2			112.2
PERS. BENEFITS	19.2			17.5
TRAVEL	1.0			1.0
TRANSPORTATION	0.0			0.0
RENT, COMM, UTIL	0.3			0.3
PRINT/REPROD.	0.2			0.2
CONTRACTS	0.0			0.0
SUPPLIES/MATERIAL	1.7			1.7
EQUIPMENT	0.0			0.0
GRANTS	0.0			0.0
TOTALS	134.6			134.6
FTE (FTP)	2.0			2.0
FTE (OTFTP)	0.0			0.0

STRATEGIC PLAN	
GOAL #	OBJ #
3	1

VESSELS		
# SEA DAYS ALLOC.		
23		
NOAA	CHARTER	FREE
23		

CROSS REFERENCES	

Richard A. Neel

HQ CONTACT

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CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

SWC

721

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Pelagic Fishery Dynamics	Hon. Lab.	2.0	134.6	C. H. Boggs	Info. Anal. & Dissem.

A. **PROBLEM STATEMENT/OBJECTIVE:** To gain sufficient understanding of the dynamics of limited-range, pacific island-based pelagic fisheries and the resources they exploit to make recommendations for effective local fishery management, and to predict the effects of various management options. the objectives are to describe functional relationships that affect fishery systems, develop better predictive models for LMRS and fisheries, reduce uncertainties in stock assessments, and reduce the risk of overfishing.

B. **METHODOLOGY/APPROACH:** Analyze fishery statistics from U.S. island-based pelagic fisheries (especially from the largest of these fisheries based in Hawaii) to determine the sources of variation in CPUE due to such factors as local fishing intensity, the distribution of fishing effort, the composition of fishery participants, gear characteristics, operating characteristics, economic variables, fish population dynamics, biology, fish movements, and environmental variables. Also conduct field research on the effects of these factors. Evaluate the relative importance of those factors that could be influenced by fishery management. Based on these studies and model the impacts of various management options especially limited entry, area and season closures, gear restrictions, and non-retention.

C. **PRODUCT/SERVICES:** Publications on pelagic fishery performance, fish vulnerability to different gear configurations in relation to fish depth distribution and environmental factors, classification of fishery participants, and fishing operations. Provide annotated data, data summaries, descriptions of fishery dynamics, model results and recommendations for management measures to the WPRFMC and the wider research community.

D. **CLIENTS:** National and local government agencies use products in analyzing pelagic fishery management policy and in developing management plans. Studies contribute to efforts by a wide international community of researchers to describe and conserve pelagic fishery resources. The U.S. fishing industry uses products to improve harvest efficiency and make investment decisions.

E. **CONTRACTS:** None

CURRENT YEAR OPERATING PLAN

FMC

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PAGE

PERSONNEL SCHEDULE

SWC

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# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Boggs, Christofer	Fishery Biologist	GS-12/6	100	8L1A6A71
2. Chang, Randolph	Fishery Biologist	GS-11/9-10	100	8L1A6A71

FMC	REF. NO.	PAGE
SWC	722	1 OF 4

TITLE ->	Pelagic Stock Assessment Program			
TASK NUMBERS ->	8L1A7A72			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR	222.3			
PERS. BENEFITS	38.1			
TRAVEL	0.4			
TRANSPORTATION	0.3			
RENT, COMM, UTIL	0.0			
PRINT/REPROD.	0.0			
CONTRACTS	0.3			
SUPPLIES/MATERIAL	0.8			
EQUIPMENT	0.0			
GRANTS	0.0			
TOTALS	262.2			
FTE (FTP)	4.0			
FTE (OTFTP)	0.02			

STRATEGIC PLAN	
GOAL #	OBJ #
2	1, 2

VESSELS	
# SEA DAYS ALLOC.	
5	
NOAA	CHARTER
5	FREE

CROSS REFERENCES	

APPROVAL SIGNATURE

HQ CONTACT

Richard A. Neal

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Pelagic Stock Assessment	Hon. Lab.	4.02	262.2	R. Skillman	Resource Information

- A. **PROBLEM STATEMENT/OBJECTIVES:** Improve assessments of the status of pelagic stocks and locally available resources to improve the scientific basis for pelagic fishery management decisions in the Western Pacific Region essential for implementing the Magnuson Fishery Conservation and Management Act.
- B. **METHODOLOGY/APPROACH:** Program collects and analyzes biological samples and data from local markets, analyzes fishery statistics, models resource dynamics, and conducts experimental research cruises.
- C. **PRODUCTS/SERVICES:** Program issues administrative and technical reports, scientific papers, and technical advisory information for fishery managers.
- D. **CLIENTS:** NMFS management and Western Pacific Regional Fishery Management Council rely on program products for fishery management decisions. Fishing industry benefits directly from reports and information briefs.
- E. **CONTRACTS:** None.

CURRENT YEAR OPERATING PLAN

SWC

PERSONNEL SCHEDULE

3 OF 4

722

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Skillman, Robert	Supvy Fish Biolgst	GM-13	100	8L1A7A72
2. Brill, Richard	Fishery Biologist	GM-13	100	8L1A7A72
3. Uchiyama, James	Fishery Biologist	GS-11/9-10	100	8L1A7A72
4. Sampaga, Jeffrey	Bio Sci Technician	GS-5/8	100	8L1A7A72
TEMPORARIES:				
1. Curran, Daniel	Bio Sci Technician	GS-6/1	2	8L1A7A72

FMC	REF. NO.	PAGE
SWC	730	1 OF 4

TITLE -->	Insular Stock Assessment Program			
	TASK #1	TASK #2	TASK #3	TASK #4
TASK NUMBERS -->	8L1C5A73			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR	172.9			TOTAL
PERS. BENEFITS	28.9			172.9
TRAVEL	0.0			28.9
TRANSPORTATION	0.0			0.0
RENT, COMM, UTIL	0.0			0.0
PRINT/REPROD.	0.0			0.0
CONTRACTS	1.0			1.0
SUPPLIES/MATERIAL	0.7			0.7
EQUIPMENT	0.0			0.0
GRANTS	0.0			0.0
TOTALS	203.5			203.5
FTE (FTP)	4.0			4.0
FTE (OTFTP)	0.5			0.5

APPROVAL SIGNATURE

Richard A. Neal

HQ CONTACT

STRATEGIC PLAN	
GOAL #	OBJ #
1, 2	1, 2
VESSELS	
# SEA DAYS ALLOC.	
0	
NOAA	CHARTER
0	FREE
CROSS REFERENCES	

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

2 OF 4

SWC

730

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Insular Stock Assessment	Hon. Lab.	4.5	203.5	J. Polovina	Info. Anal. & Dissem.

- A. **PROBLEM STATEMENT/OBJECTIVE:** This task addresses the problem of assessing exploited insular resources to determine their developmental potential or the extent to which they are overfished. The analyses conducted and the information produced concern tropical slope, nearshore and seamount ecosystems with emphasis on bottomfishes and seamount groundfishes. Research results provide decision makers with the information necessary to manage these fisheries.
- B. **METHODOLOGY/APPROACH:** Data are collected by regulatory agencies and analyzed by quantitative fisheries models to detect underlying patterns in growth, mortality and community production. Research data are also collected during scientific cruises to determine spatial and temporal patterns in resources abundance, to develop estimates of biomass, and to acquire biological samples for laboratory analysis.
- C. **PRODUCT/SERVICES:** Annual reports concerning the status of the bottomfish and seamount groundfish stocks are produced for use by the western pacific regional fishery management council. Innovative methodologies and noteworthy findings are published in the scientific literature.
- D. The primary clients will be the western pacific regional fishery management council, its scientific and statistical committee, and the industry advisory panel. Island governments throughout the pacific region also benefit substantially from the research conducted in this task.
- E. **CONTRACTS:** Contract for scuba maintenance (\$1K).

PERSONNEL SCHEDULE		CURRENT YEAR OPERATING PLAN		3 OF 4	
		SWC		730	
# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #	
FTP:					
1. Shiota, Paul	Fishery Biologist	GS-11/8	100	8L1C5A73	
2. Everson, Alan	Fishery Biologist	GS-9/3-4	100	8L1C5A73	
3. Haight, Wayne	Fishery Biologist	GS-9/2-3	100	8L1C5A73	
4. Kobayashi, Donald	Fishery Biologist	GS-9/1-2	96	8L1C5A73	
PTP:					
1. Williams, Happy	Biological Aid	GS-5/5	50	8L1C5A73	

FORM 1
RESOURCE SUMMARY

NMFS
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FY 1994

DATE FEB. 11, 1994

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TITLE ->	Insular Habitat Program			
TASK NUMBERS ->	8L1A6A73			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR	195.9			
PERS. BENEFITS	33.6			
TRAVEL	1.0			
TRANSPORTATION	0.0			
RENT, COMM, UTIL	0.0			
PRINT/REPROD.	0.0			
CONTRACTS	0.0			
SUPPLIES/MATERIAL	5.0			
EQUIPMENT	0.0			
GRANTS	0.0			
TOTALS	235.5			
FTE (FTP)	4.0			
FTE (OTFTP)	1.0			

TOTAL	
195.9	
33.6	
1.0	
0.0	
0.0	
0.0	
0.0	
5.0	
0.0	
0.0	
235.5	
4.0	
1.0	

STRATEGIC PLAN	
GOAL #	OBJ #
3	1

VESSELS		
# SEA DAYS ALLOC.		
31		
NOAA	CHARTER	FREE
31		

CROSS REFERENCES	

Richard A. Wood

HQ CONTACT

APPROVAL SIGNATURE

EXECUTIVE SUMMARY

TITLE

PRIN. FAC.

FTE

\$K

UNIT LEADER

LINE ITEM NAME

Insular Habitat Program

Hon. Lab.

5.0

235.5

E. DeMartini

Info. Anal. & Dissem.

- A. **PROBLEM STATEMENT/OBJECTIVE:** A fundamental problem confronting management of Hawaiian insular resources is the lack of sufficient data on the habitat and distribution of these resources, particularly those of critical early life-stages. A major focus of the Insular Ecology Program is to characterize the habitat and describe patterns of distribution and abundance, and related life-histories, of the juvenile stages of key species of reef-based bottomfish resources.
- B. **METHODOLOGY/APPROACH:** Central to characterizing juvenile habitats and estimating the distribution patterns of juveniles is the development of innovative, yet efficient (accurate and precise) sampling methods. Much research (both using the large Honolulu Laboratory vessel, and shore-based using small craft) has thus far been devoted to evaluating the relative efficiency of gear types. Two complementary samplers (baited traps and stationary video cameras) are now being used to describe and compare CPUE (as indices of abundance) between habitats for the 0+ and I+ juveniles of pink snapper ("opakapaka"), a major bottomfish resource in Hawaii and throughout the South Pacific. One or both samplers might be used to monitor future temporal trends in juvenile abundance within major habitat types. Estimates of juvenile CPUE might then be used to forecast abundance of the fishable stock. Knowledge of juvenile-habitat relations would allow improved siting decisions for potential spatial fishery closures in the future. Future studies will expand to include other important bottomfish species (e.g., hapuupuu grouper; kalakale snapper). Expanded size-at-maturity determinations, and studies of juvenile age and growth that improve prior characterizations limited to older-stage fish, are being used to refine parameter estimates for management simulations.
- C. **PRODUCTS/SERVICES:**
- D. **CLIENTS:** Primary beneficiaries are bottomfish researchers in the Stock Assessment Program of Insular Investigations, Honolulu Laboratory. The Western Pacific Fishery Management Council will benefit indirectly from products and services of the Stock Assessment Program. Significant research findings are being published regularly in peer-reviewed journals.
- E. **CONTRACTS:** None

CURRENT YEAR OPERATING PLAN

PERSONNEL SCHEDULE

SWC

3 OF 4

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. DeMartini, Edward	Fishery Biologist	GM-13	100	8L1A6A73
2. Humphreys, Robert	Fishery Biologist	GS-9/5-6	100	8L1A6A73
3. Landgraf, Kevin	Bio Sci Technician	GS-6/4-5	100	8L1A6A73
4. Mundy, Bruce	Fishery Biologist	GS-11/4	100	8L1A6A73
TEMPORARIES:				
1. Ellis, Denise	Bio Sci Technician	GS-5/1	100	8L1A6A73

FORM 1
RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

DATE	FEB. 17, 1994	
FMC	REF. NO.	PAGE
SWC	732	1 OF 4

TITLE ->	Insular Ecosystem & Oceanography			
TASK NUMBERS ->	8L1A4B74			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR	247.6			247.6
PERS. BENEFITS	41.1			41.1
TRAVEL	2.0			2.0
TRANSPORTATION	0.0			0.0
RENT, COMM, UTIL	0.0			0.0
PRINT/REPROD.	0.0			0.0
CONTRACTS	0.0			0.0
SUPPLIES/MATERIAL	5.3			5.3
EQUIPMENT	0.0			0.0
GRANTS	0.0			0.0
TOTALS	296.0			296.0
FTE (FTP)	5.0			5.0
FTE (OTFTP)	0.0			0.0

STRATEGIC PLAN	
GOAL #	OBJ #
3	1, 2

VESSELS		
# SEA DAYS ALLOC.		
27		
NOAA	CHARTER	FREE
27		
CROSS REFERENCES		

APPROVAL SIGNATURE	HQ CONTACT
<i>Richard A. Neal</i>	

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Insular Ecosys & Ocean.	Hon. Lab	5.0	296.0	J. Polovina	Resource Information
A. Problem/statement objective: This task investigates population dynamics and resource assessment for fishery resources around tropical island ecosystems. Field sampling and quantitative methods are used to develop management advice for hawaiian fisheries. B. Methodology/approach: Field sampling and quantitative models are used to explain and forecast changes within and between island ecosystems. Research sampling for lobster larvae and juvenile snappers will document the temporal and spatial scale of recruitment processes for these resources. Quantitative models are used for assessment and forecasting in the lobster fishery. C. Product/services: An annual status of lobster stocks is produced for the western pacific regional fishery management council. Current ecological and methodological results are published in scientific journals. D. Clients: Western Pacific Regional Fishery Management Council and island governments. E. Contracts: None.					

PERSONNEL SCHEDULE		CURRENT YEAR OPERATING PLAN		SWC	732	3 OF 4
# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #		
FTP:						
1. Polovina, Jeffery	Supvy Math Statistn	GM-14	100	8L1A4B74		
2. Kazama, Thomas	Fishery Biologist	GS-11/9	100	8L1A4B74		
3. Moffitt, Robert	Fishery Biologist	GS-11/4	100	8L1A4B74		
4. Parrish, Frank	Fishery Biologist	GS-9/2-3	100	8L1A4B74		
5. Yoshimoto, Ronald	Bio Sci Aid	GS-4/4-5	100	8L1A4B74		

FORM 1
RESOURCE SUMMARY

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DATE
FMC
SWC

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740

PAGE
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TITLE ->	Fishery Monitoring/Economics Program				
	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
TASK NUMBERS ->	8L1C2A74	8L1A1A75			
OBJECT CLASS	TASK #1	Kewalo			
	274.2	3.9			278.1
	47.0	0.7			47.7
	1.5	0.0			1.5
	0.0	0.0			0.0
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT, COMM, UTIL		32.8			32.8
PRINT/REPROD.		0.0			0.0
CONTRACTS		2.0			2.0
SUPPLIES/MATERIAL		0.0			2.0
EQUIPMENT		2.5			2.5
GRANTS		0.0			0.0
TOTALS	327.2	39.4			366.6
FTE (FTP)	6.0	0.0			6.0
FTE (OTFTP)	1.5	0.1			1.6

STRATEGIC PLAN	
GOAL #	OBJ #
1. 2	1, 2 & 3

VESSELS		
# SEA DAYS ALLOC.		
0		
NOAA	CHARTER	FREE
0		

CROSS REFERENCES	

APPROVAL SIGNATURE

HQ CONTACT

Richard A. Kent

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Fishery Management & Economics	Hon. Lab.	7.6	366.6	S. Pooley	Information analysis & Dissemination

A. **PROBLEM STATEMENT & OBJECTIVE:** The Fishery Management & Performance Investigation (FMPI) is the focal point for collecting scientific information for the Western Pacific Fishery Management Council (Council). It also handles data processing and management for the Honolulu Laboratory (under the FDMP program) and maintains the Kewalo Research Facility (KRF) on the Honolulu waterfront.

Objectives: To provide fisheries-dependent data for biological and economic research on central and western Pacific domestic U.S. fisheries. To conduct economic and operational research on Federally monitored fisheries in the region. To provide physical facilities for experimental laboratory research and provide backup support for shipboard research.

B. **METHODOLOGY/APPROACH:** Participate in each Council plan monitoring team and prepare annual and quarterly reports on Federally monitored fisheries. Collect, compile, and summarize fishery and market data for MFCMA fisheries. Data include logbook programs, shoreside sampling, on-board observer coverage, and special surveys. Economic research includes cost-earnings production and fishing dynamics studies of fishing vessels, analysis of seafood market channels and dynamics, recreational valuation studies, and regulatory impact analyses. Operational research includes analysis of vessel participation patterns and related activities.

C. **PRODUCTS/SERVICES:** Annual status reports on Hawaii's major commercial fisheries, and quarterly reports on Federally monitored fisheries. Reports and published papers on research results. High quality data sets.

D. **CLIENTS:** Primary--Council, Laboratory research programs. Secondary--State & island fisheries agencies, University of Hawaii researchers, other Federal programs and agencies, private industry, and the public.

E. **CONTRACTS:** Trash collection for KRF. Cooperative student research with UH Sea Grant program.

PERSONNEL SCHEDULE

SWC

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# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Pooley, Samuel	Industry Economist	GM-14	100	8L1C2A74
2. Sumida, Ray	Fishery Biologist	GS-11/9	100	8L1C2A74
3. Cabacungan, Frank	Programmer	GS-7/3-4	100	8L1C2A74
4. Kawamoto, Kurt	Fishery Biologist	GS-7/5	100	8L1C2A74
5. Ito, Russell	Biological Tech	GS-6/4-5	100	8L1C2A74
6. Dollar, Robert	Fishery Biologist	GS-7/2	100	8L1C2A74
TEMPORARIES:				
1. Dowdell, Fredrick	Computer Specialist	GS-5/1	100	8L1C2A74
2. Tokita, Christopher	Computer Aid	GS-4/1	50	8L1C2A74
3. Klein, Michelle	Laborer	WG-1/1	3	8L1A1A75
4. Yano, Shigeru	Res Lab Mechanic	WG-7/3	8	8L1A1A75

CURRENT YEAR OPERATING PLAN

FMC

REF. NO.

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SWC

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 94					95			96	
				1	2	3	4		1	2	1	2	
8L1C2A74	A	1	Collect and compile biological, operational, and economic data from commercial and recreational fisheries.	X	X	X	X		X	X	X	X	X
	E	2	Prepare quarterly reports on Federally monitored lobster and longline fisheries.	N	F	M	A		N	M	N	M	A
	E	3	Issue annual fishery reports and modules (Crustacean, Bottomfish, and Pelagics FMPs).			A				A		A	
	A	4	Compile protected species information from Federally monitored fisheries (lobster and longline).	X	X	X	X		X	X	X	X	X
Cancelled	A	5	Continue investigation of coordination between State of Hawaii and NMFS on monitoring, data collection, and data compilation of Federally managed fisheries (primarily bottomfish and pelagics).				S			S		S	
Delayed	M	6	Complete NWHI lobster fishery economics paper and conduct economic research on NWHI bottomfish fishery and Hawaii Longline fishery.				S			S			
	A	7	Participate in WPRFMC activities and provide principal Honolulu Laboratory liaison with WPRFMC.	X	X	X	X		X	X	X	X	X
		8	Complete spreadsheet model of the Hawaiian longline fishery. In collaboration with SWC 722.			J							
	A	9	Deploy and collect logbooks from Honolulu-based longline fleet.	X	X	X	X		X	X	X	X	X
	M	10	Compile and quality control logbook data from all domestic Western Pacific longline vessels.	X	X	X	X		X	X	X	X	X

FORM 1
RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

DATE FEB. 11, 1994

REF. NO. PAGE

741 1 OF 4

FMC

SWC

TITLE -->	Western Pacific Fishery Info. Network			
TASK NUMBERS -->	8L1C1A75			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
DIRECT LABOR	90.7			
PERS. BENEFITS	15.5			
TRAVEL	1.5			
TRANSPORTATION	0.0			
RENT, COMM, UTIL	1.0			
PRINT/REPROD.	1.0			
CONTRACTS	0.5			
SUPPLIES/MATERIAL	1.5			
EQUIPMENT	0.0			
GRANTS	0.0			
TOTALS	111.7			
FTE (FTP)	2.3			
FTE (OTFTP)	0.0			

TOTAL

90.7

15.5

1.5

0.0

1.0

1.0

0.5

1.5

0.0

0.0

111.7

2.3

0.0

Richard A. Reed

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

ALL

VESSELS

SEA DAYS ALLOC.

0

NOAA

CHARTER

FREE

0

CROSS REFERENCES

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC

REF. NO.

2 OF 4

SWC

741

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
WPACFIN	Hon. Lab.	2.3	111.7	D. Hamm	Info. Anal. & Dissem.

A. **PROBLEM STATEMENT/OBJECTIVE:** The Western Pacific Fishery Information Network (WPACFIN) was developed to supply timely and accurate fisheries data for planning and management purposes. The WPACFIN is the central source of information on most fisheries in American Samoa, the Commonwealth of the Northern Mariana Islands (CNMI), Guam, and Hawaii. The program also supports other Pacific Islands (e.g., Compact States) fisheries data needs as time and resources permit.

B. **METHODOLOGY/APPROACH:** Through providing technical assistance to Pacific Island fisheries agencies, WPACFIN's cooperative program establishes and maintains a regional information network to help meet the data requirements of the Magnuson Fishery Conservation and Management Act. The WPACFIN also facilitates administration of funds available to island fisheries agencies through the Pacfin System Data Initiative to improve local data collecting and processing systems and filling information gaps. Fishery data are collected primarily by local government agencies and then accumulated, compiled, and maintained in a regional database system at the Honolulu Laboratory. Microcomputer systems are used in each office to capture and computerize the data before automated copies of the databases are sent to the central WPACFIN system. Information is then made available to qualified users for numerous reporting and analytical purposes.

C. **PRODUCT/SERVICES:** The WPACFIN coordinates compilation of summary statistics from all participating agencies and distributes them in the Southwest Fisheries Science Center administrative report series Fishery Statistics of the Western Pacific. Other products include ad hoc reports, responses to data requests, submission of summary reports to various fishery management plan monitoring teams, and assistance in submission of island modules for the annual plan monitoring team reports on bottomfish and pelagic species.

D. **CLIENTS:** Users include the Western Pacific Regional Fishery Management Council and its staff, scientific and statistical committee, advisory groups, and fishery management plan monitoring teams; NMFS employees; Pacific Island fisheries agencies; university researchers; contractors; the fishing industry; and international organizations such as the South Pacific Commission and FAO.

E. **CONTRACTS:** Local computer maintenance and repair (\$0.5K).

PERSONNEL SCHEDULE		CURRENT YEAR OPERATING PLAN		SWC		741		3 OF 4	
# NAME		TITLE		PAY PLAN/GRADE/STEP		% TIME		TASK #	
FTP:									
1. Hamm, David		Computer Sys Anlyst		GS-12/9		25		8L1C1A75	
2. Quach, Michael		Computer Programmer		GS-9/4		100		8L1C1A75	
3. Kikkawa, Bert		Fishery Biologist		GS-9/4		100		8L1C1A75	

[illegible]

FMC	REF. NO.	PAGE
SWC	742	1 OF 4

TITLE ->	Fishery Data Management			
TASK NUMBERS ->	8L1C2A76			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4
				TOTAL
DIRECT LABOR	130.8			130.8
PERS. BENEFITS	22.4			22.4
TRAVEL	0.0			0.0
TRANSPORTATION	0.0			0.0
RENT, COMM, UTIL	0.0			0.0
PRINT/REPROD.	0.0			0.0
CONTRACTS	1.0			1.0
SUPPLIES/MATERIAL	1.0			1.0
EQUIPMENT	0.0			0.0
GRANTS	0.0			0.0
TOTALS	155.2			155.2
FTE (FTP)	2.8			2.8
FTE (OTFTP)	0.1			0.1

STRATEGIC PLAN	
GOAL #	OBJ #
ALL	
VESSELS	
# SEA DAYS ALLOC.	
0	
NOAA	CHARTER
0	FREE
CROSS REFERENCES	

Richard A. Neal

HQ CONTACT

APPROVAL SIGNATURE

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Fishery Data Management	Hon. Lab.	3.2	155.2	D. Hamm	Info. Anal. & Dissem.

- A. **PROBLEM STATEMENT/OBJECTIVES:** Support of the daily data entry and data processing functions of the Honolulu Laboratory and its scientists and programs is the principal objective of the fishery data management program (FDMP). Meeting laboratory and NMFS objectives for research and fishery management requires a considerable amount of data entry, file management, forms and data base design, and data processing support, which are primarily provided by this group. All laboratory data bases are maintained and made available by the fishery data management program.
- B. **METHODOLOGY/APPROACH:** Using standard microcomputer and mainframe computer based data entry, processing, and file management techniques, FDMP personnel perform a wide range of data processing functions in support of the laboratory's scientists, from forms design and data entry to data quality control, reformatting and archiving. FDMP maintains the laboratory's extensive tape library of historical research and fisheries performance data bases, and makes these available to scientists in easily used formats.
- C. **PRODUCT/SERVICES:** As stated, FDMP provides a wide range of services and data products to the laboratory staff including forms design, data entry, validation, and quality control, and data archival, reformatting, and retrieval.
- D. **CLIENTS:** The primary users of FDMP services are the Honolulu Laboratory scientists and technicians, but other less frequent users include other NMFS employees, the Western Pacific Regional Fishery Management Council and its staff, and university researchers.
- E. **CONTRACTS:** University of Hawaii data processing (\$1k).

PERSONNEL SCHEDULE

NMFS
CURRENT YEAR OPERATING PLAN

FMC

REF. NO.

PAGE

SWC

742

3 OF 4

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Hamm, David C.	Computer Sys Analyst	GS-12/9	75	8L1C2A76
2. Tagami, Darryl	Oper Res Analyst	GS-9/6	100	8L1C2A76
3. Tsukano, Lucille	Computer Aide	GS-6/10	100	8L1C2A76
PTP:				
1. Miyamoto, Brent	Computer Assistant	GS-7/2	30	8L1C2A76
TEMPORARIES:				
1. Yanagi, Doris	Computer Aide	GS-3/1	14	8L1C2A76

CURRENT YEAR OPERATING PLAN

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[illegible]

FORM 1
RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

DATE FEB. 17, 1994

REF. NO. PAGE

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TITLE -->	Marine Mammal Research			
	8L1A3V76	8L1AMS77	TASK #3	TASK #4
TASK NUMBERS -->	TASK #1	TASK #2		
	Base	Add-On		
DIRECT LABOR	179.8	61.3		241.1
PERS. BENEFITS	30.8	10.5		41.3
TRAVEL	4.9	12.0		16.9
TRANSPORTATION	0.0	0.0		0.0
RENT, COMM, UTIL	0.0	1.0		1.0
PRINT/REPROD.	0.0	0.0		0.0
CONTRACTS	0.0	28.0		28.0
SUPPLIES/MATERIAL	0.0	52.5		52.5
EQUIPMENT	0.0	9.0		9.0
GRANTS	0.0	78.9		78.9
TOTALS	215.5	253.2		468.7
FTE (FTP)	2.8	1.2		4.0
FTE (OTFTP)	0.0	0.6		0.6

STRATEGIC PLAN	
GOAL #	OBJ #
2	1, 2

VESSELS	
# SEA DAYS ALLOC.	
59	
NOAA	CHARTER
59	FREE

CROSS REFERENCES	

APPROVAL SIGNATURE

Richard A Neal

HQ CONTACT

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

SWC

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Mar. Mammals Research Prog.	Hon. Lab.	4.6	468.7	W. Gilmartin	Resource Information

A. **PROBLEM STATEMENT/OBJECTIVES:** This task monitors and performs recovery oriented research on the endangered Hawaiian monk seal in the Northwestern Hawaiian islands. Impediments to recovery are identified and experiments with recovery actions are performed. NMFS is responsible for this species under the Marine Mammal Protection Act and Endangered Species Act and the research is primarily guided by the Monk Seal recovery plan and the recovery team.

B. **METHODOLOGY/APPROACH:** The principal research in this task is performed by field teams in the Northwestern Hawaiian islands. Flipper tags are applied to collect data on survival, reproduction, growth rate, movements, and population size and composition. Some monk seal pups are collected for rehabilitation to enhance survival; these seals will be released at Kure Atoll or Laysan island. A project directed at control of the male mobbing problem will occur at Laysan island. Foraging research will be conducted and satellite tagging will be conducted.

C. **PRODUCT/SERVICES:** Population data, impediments to recovery which are identified, and recovery methodologies, and other findings are summarized into technical reports for publication. Results of the mobbing project will direct future research in these areas.

D. **CLIENTS:** The primary clients are the NMFS, Marine Mammal Commission, U.S. Fish and Wildlife Service, and the respective recovery team. The clients use the products to recommend and plan future research, initiate management actions, and take appropriate recovery actions to enhance species survival.

E. **CONTRACTS:** Veterinary care (\$8.0K), Aircraft charter (\$4.5K), population analysis (\$4.5K), satellite tracking data (\$5.0K), data processing (\$1.0), and clinical vet. lab. (\$5.0)

FORM 3

NMFS

CURRENT YEAR OPERATING PLAN

PAGE

PERSONNEL SCHEDULE

FMC

REF. NO.

SWC

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# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Gilmartin, William	Wildlife Biologist	GM-14	100	8L1A3V76
2. Henderson, John	Wildlife Biologist	GS-11/7	80	8L1A3V76
Henderson, John	Wildlife Biologist	GS-11/7	20	8L1AMS77
3. Ragen, Timothy	Wildlife Biologist	GS-12/3-4	100	8L1A3V76
4. Becker, Brenda	Wildlife Biologist	GS-7/4	100	8L1AMS77
PTP:				
1. Johanos-Kam, Thea	Wildlife Biologist	GS-9/4	50	8L1AMS77
TEMPORARIES:				
1. Johnston, Heather	Bio Aid Wildlife	GS-4/1	10	8L1AMS77

FMC	REF. NO.	PAGE
SWC	775	1 OF 5

TITLE ->	Marine Turtle Research Program			
	8L1A3V78	8L1AHT79	TASK #3	TASK #4
TASK NUMBERS ->	TASK #1	TASK #2		
OBJECT CLASS	Base	Add-on		TOTAL
	40.7	52.4		93.1
PERS. BENEFITS	7.0	9.0		16.0
TRAVEL	0.0	16.0		16.0
TRANSPORTATION	0.0	0.5		0.5
RENT, COMM, UTIL	0.0	0.0		0.0
PRINT/REPROD.	0.0	0.0		0.0
CONTRACTS	0.0	16.5		16.5
SUPPLIES/MATERIAL	1.5	11.1		12.6
EQUIPMENT	0.0	1.0		1.0
GRANTS	0.0	38.4		38.4
TOTALS	49.2	144.9		194.1
FTE (FTP)	0.8	0.5		1.3
FTE (OTFTP)	0.0	0.8		0.8

STRATEGIC PLAN	
GOAL #	OBJ #
4	
VESSELS	
# SEA DAYS ALLOC.	
0	
NOAA	CHARTER
0	FREE
CROSS REFERENCES	

APPROVAL SIGNATURE

HQ CONTACT

TITLE		PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Mar. Turt. Res. Prog.		Hon. Lab	2.1	194.1	G. Balazs	Resource Information

A. **PROBLEM STATEMENT/OBJECTIVES:** NMFS is responsible for research, monitoring, and achieving biological recovery of marine turtle populations listed under the ESA. An interim recovery plan for Hawaiian sea turtles has been completed by an appointed recovery team of scientists. Efforts are now underway to implement the research and recovery actions recommended in this plan. A priority focus of this work is the enigmatic tumor (fibropapilloma) disease that continues to significantly affect the health and survival of Hawaii's green turtle (*Chelonia mydas*). The cause of this disease, its mode of transmission, and the reason(s) for increasing incidence during recent years are unknown. Additional monitoring and pathology studies need to be directed toward this problem to develop solutions for containment.

B. **METHODOLOGY/APPROACH:** Research techniques involve tag and recapture of turtles both in the sea and on nesting beaches in order to obtain essential data on population size, growth rates, health status, migrations, natural predation, human-induced mortality, productivity and survivorship. Basic research tools include scuba and skin diving, cooperative assistance of Hawaiian fishermen, and cooperative tumor disease investigations with specialists in Florida and elsewhere.

C. **PRODUCT/SERVICES:** Data, technical reports, and publications are generated on the life history, ecology, pathology, and population dynamics of sea turtles necessary to accomplish biological recovery and effective longterm management of the populations.

D. **CLIENTS:** The primary clients are the NMFS, U.S. Fish and Wildlife Service, State of Hawaii Protected Species Managers, National Park Service, and various other public and private entities with interests in sea turtle recovery and management. Initiate management actions.

E. **CONTRACTS:** Parasitological research of fibropapilloma disease (\$8.0) and incidentally capture turtles health screening (\$3.0K), algae/turtle gut identification (\$1.0) and aircraft charter (\$4.5).

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Balazs, George	Zoologist	GS-12/4	75	8L1A3V78
Balazs, George	Zoologist	GS-12/4	25	8L1AHT79
2. Wetherall, Jerry	Fishery Biologist	GM-14	25	8L1AHT79
FTT:				
1. Winton, Bryan	Bio Technician	GS-5/1	75	8L1AHT79



FMC	REF. NO.	PAGE
SWC	800	1 OF 3

TITLE		->					Tiburon Laboratory Administration	
TASK NUMBERS ->		9WGN4080	9WGN4081	9WGN4082				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4				
	General	Library	Facilities				TOTAL	
DIRECT LABOR	148.1	24.1	37.6				209.8	
PERS. BENEFITS	31.1	5.1	2.1				38.3	
TRAVEL	1.2						1.2	
TRANSPORTATION	0.4						0.4	
RENT, COMM., UTIL.	11.3		19.8				31.1	
PRINT/REPROD.		0.2					0.2	
CONTRACTS	2.7	1.0	20.4				24.1	
SUPPLIES/MATERIAL		7.0	2.6				9.6	
EQUIPMENT								
GRANTS								
TOTALS	194.8	37.4	82.5				314.7	
FTE (FTP)	4.5		1.0				5.5	
FTE (OTFTP)		0.8					0.8	

APPROVAL SIGNATURE

Richard A. Neal

HQ CONTACT

STRATEGIC PLAN

GOAL # OBJ #

VESSELS

SEA DAYS ALLOC.

NOAA	CHARTER	FREE

CROSS REFERENCES

EXECUTIVE SUMMARY

2 OF 3

SWC

800

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Management Fund	Tiburon, CA	6.3	314.7	A. MacCall	Management Fund

- A. PROBLEM STATEMENT/OBJECTIVE: To provide overall management and administration of both human and fiscal resources for the Tiburon Laboratory.
- B. METHODOLOGY/APPROACH: Provide guidance for overall operations and scientific programs of Tiburon Laboratory. Maintain and improve internal controls and streamline operating procedures.
- C. PRODUCT/SERVICE Provide efficient day-to-day administration of the Tiburon Laboratory in areas of procurement, personnel and facility maintenance; flow of information/products to outside agencies and the public.
- D. CLIENTS: Southwest Region, Pacific Fishery Management Council, fishing industry, general public.
- E. CONTRACTS: Janitorial services, vehicle and equipment maintenance and service.

PERSONNEL SCHEDULE

SWC

800

3 OF 3

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	MacCall, Alec	Director	GM-15	50	9WGN4080
2.	Yokota, Issei	Admin. Officer	GS-9/6	100	"
3.	Mavrantonis, Elaine	Secretary Typing	GS-6/8	100	"
4.	Spurgeon, Marie	Adm. Supp. Clk.	GS-5/6	100	"
5.	Petratis, Adrienne	Secretary Off. Auto.	GS-5/4	100	"
6.	Vacant	Clerk/Typist	GS-4/1	100	"
7.	Penn, Gareth	Librarian	GS-9/2	80	9WGN4081
8.	Munoz, Antonio	Mtnceman(RIF on 1/7/94)	WG-9/5	30	9WGN4082

TITLE		->	Groundfish Analysis Investigation			
TASK NUMBERS ->		8L1C2A80	8L1A3A84			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL	
DIRECT LABOR	327.7	59.6			387.3	
PERS. BENEFITS	63.4	12.5			75.9	
TRAVEL	7.4				7.4	
TRANSPORTATION	0.4				0.4	
RENT, COMM., UTIL.						
PRINT/REPROD.	0.5				0.5	
CONTRACTS						
SUPPLIES/MATERIAL	11.2				11.2	
EQUIPMENT						
GRANTS						
TOTALS	410.6	72.1			482.7	
FTE (FTP)	7.25	.75			8.0	
FTE (OTFTP)	0.6				0.6	

Richard A. Neal

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN		
GOAL #		OBJ #
1		1,2,3
2		1,2,5
3		1,2,3
6		1,2,4

VESSELS		
# SEA DAYS ALLOC.		
NOAA	CHARTER	FREE
49		

CROSS REFERENCES
812, 813

FMC	REF. NO.	PAGE
SWC	811	1 OF 4

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Groundfish Analysis	Tiburon, CA	8.6	482.7	W. Lenarz	Info.Anal.&Dissemination

- A. **PROBLEM STATEMENT/OBJECTIVE:** This task provides information needed to implement the groundfish plan of the Pacific Fishery Management Council. The requirements are defined by the Groundfish Team and S&S Committee of the Council and through consultation with members of the scientific and fishing industry communities. Results of the work are provided to the Council to aid it in plan implementation decisions.
- B. **METHODOLOGY/APPROACH:** Fishery dependent data are collected by a cooperative port sampling program with the state of California. Adults of these species are aged as part of a coastwide cooperative program. Fishery independent data are collected on the recruitment of rockfish using a NOAA vessel, and on spawning biomass of rockfish using NOAA and chartered vessels. Stock assessments and other analytical studies are done using the above data, and the PacFIN database and fishery independent data collected by the AFSC. Simulation modeling is often used to evaluate management strategies. Staff members are on the Groundfish Management Team and S&S Committee and work closely with the staff of the AFSC and other agencies.
- C. **PRODUCT/SERVICES:** Stock assessments are incorporated in the Council's annual Stock Status document. (Technical evaluation of potential impacts of proposed regulations are incorporated in Groundfish Team documents.) In addition the staff regularly publishes in peer-reviewed journals and administrative reports and presents talks at scientific meetings.
- D. **CLIENTS:** The main clients are the Pacific Fishery Management Council and its entities. Several members of the staff often respond to requests for information by the fishing industry and other scientists.
- E. **CONTRACTS:** None

PERSONNEL SCHEDULE

3 OF 4

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SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Lenarz, William	Supv. Fish. Bio. Res.	GS-14	75	8L1A3A84
2.	"	" " " "	"	25	8L1C2A80
3.	Ralston, Stephen	Supv. Fish. Bio. Res.	GS-13	100	"
4.	Bence, James	Math. Statistician	GS-12/4	100	"
5.	Rogers, Jean	Fish. Bio. Res.	GS-11/2	100	"
6.	Woodbury, David	Fish. Bio. Res.	GS-9/4	100	"
7.	Pearson, Donald	Fish. Bio. Res.	GS-9/3	100	"
8.	Roberts, Dale	Fish. Bio. Res.	GS-9/1	100	"
9.	Sakuma, Keith	Fish. Bio. Res.	GS-7/2	100	"
10.	Vacant	Bio. Tech.	GS-4/1	100	"
11.	Vacant (student)	Bio. Tech.	GS-4/1	30	"
	Vacant (student)	Bio. Tech.	GS-4/1	30	"

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 94 95 96											
				1	2	3	4	1	2	1	2				
8L1C2A80 REDUCED	A	1	Participate in monitoring programs.	X	X	X	X	X	X	X	X				
8L1C2A80 REDUCED	A	2	Continue work on management simulation models.	X	X	X	X	X	X	X	X				
8L1C2A80	A	3	Participate on Groundfish Management Team and other PFMC activities.	X	X	X	X	X	X	X	X				
"	M	4	Update and submit status of groundfish stocks reports for PFMC.	N				N							
"	M	5	Conduct survey for juvenile rockfish.			J									
"	E	6	Prepare report on larval production pilot survey of shortbelly rockfish.	D											
8L1C2A80 CANCELED	A	7	Participate in Laboratory investigation of senescence.	X	X	X	X	X	X	X	X				
8L1C2A80 REDUCED	A	8	Participate in research to improve knowledge and management of poorly known species.	X	X	X	X	X	X	X	X				
8L1C2A80	M	9	Conduct survey on early juvenile rockfish.	M											
"	E	10	Prepare section for Tiburon Laboratory annual Progress in Rockfish Recruitment Studies report.			A									
8L1C2A80 REDUCED	A	11	Conduct studies on validation of ageing techniques.	X	X	X	X	X	X	X	X				

TITLE		Groundfish Communities				
TASK NUMBERS ->	->	8L1A3A81	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS		TASK #1				
DIRECT LABOR		288.3				TOTAL
PERS. BENEFITS		59.1				288.3
TRAVEL		8.0				59.1
TRANSPORTATION		0.4				8.0
RENT, COMM., UTIL.						0.4
PRINT/REPROD.		0.5				
CONTRACTS		2.3				0.5
SUPPLIES/MATERIAL		4.1				2.3
EQUIPMENT						4.1
GRANTS						
TOTALS		362.7				362.7
FTE (FTP)		6.0				6.0
FTE (OTFTP)		0.3				0.3

STRATEGIC PLAN

GOAL #	OBJ #
2	1, 2
3	1, 2
6	2

VESSELS

SEA DAYS ALLOC.

NOAA	CHARTER	FREE
		6

CROSS REFERENCES

811, 813

Richard A. Neal

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Groundfish Communities	Tiburon, CA	6.3	362.7	E. Hobson	Resource Information

- A. PROBLEM STATEMENT/OBJECTIVE: Task identifies effects of natural change in the marine environment on the distribution, abundance and relative year class strength of groundfish species. Knowledge and understanding of these effects are required before the effects of human activities on these species or their environment can be identified.
- B. METHODOLOGY/APPROACH: Effects of environmental change are measured at established sites near shore and on the continental shelf and slope. Emphasis is on interspecific relations, especially between predator and prey, and on relative success of recruitment. Regular assessments are made with a variety of sampling devices and by visual observations where feasible. Trophic relations are determined by visual observations and study of diet, with reports of results undergoing rigorous peer review. To maintain awareness of current management problems, the Investigation includes study related specifically to management of the fishery for the lingcod, Ophiodon elongatus, and is charged with preparing the stock assessment document for that species.
- C. PRODUCT/SERVICES: Major products are published papers, reports and stock assessment documents presented to the Pacific Fishery Management Council.
- D. CLIENTS: Clients include fishery managers, Pacific Fishery Management Council, researchers and others with need to understand, or interest in, the dynamics of marine ecosystems, particularly those of the U.S. Pacific Coast.
- E. CONTRACTS: None.

PERSONNEL SCHEDULE

812

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Hobson, Edmund	Supv. Fish. Bio. Res.	GS-14	100	8L1A3A81
2.	Adams, Peter	Fish. Bio. Res.	GS-12/7	100	"
3.	Chess, James	Fish. Bio. Res.	GS-12/8	100	"
4.	Howard, Daniel	Fish. Bio.	GS-9/4	100	"
5.	Laidig, Thomas	Fish. Bio.	GS-9/2	100	"
6.	Silberberg, Kelly	Fish. Bio.	GS-7/4	100	"
7.	Vacant	Bio. Tech.	GS-4	100	"
8.	Summer Student	Bio. Tech.	GS-4	30	"

TITLE	->	Groundfish Physiological Ecology			
TASK NUMBERS ->	8L1A3A82				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	243.1				243.1
PERS. BENEFITS	46.4				46.4
TRAVEL	4.9				4.9
TRANSPORTATION	0.4				0.4
RENT, COMM., UTIL.					
PRINT/REPROD.	0.5				0.5
CONTRACTS	1.4				1.4
SUPPLIES/MATERIAL	6.4				6.4
EQUIPMENT	1.2				1.2
GRANTS					
TOTALS	304.3				304.3
FTE (FTP)	5.0				5.0
FTE (OTFTP)					

Richard A. Neaf

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #	OBJ #
2	2
3	1, 2

VESSELS
SEA DAYS ALLOC.

NOAA	CHARTER	FREE
19	20	

CROSS REFERENCES

811, 812

FMC

REF. NO.

PAGE

SWC

813

1 OF 4

EXECUTIVE SUMMARY

2 OF 4

SWC

813

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Physiological Ecology	Tiburón, CA	5.0	304.3	M. Eldridge	Resource Information

A. **PROBLEM STATEMENT/OBJECTIVE:** Fisheries managers need to understand how natural environmental factors, inherent life history traits, and management decisions can affect the persistence of fish stocks. This Task examines functional relationships between fishes and their host environments. Research consists of multidisciplinary, integrated studies designed to determine the inherent and environmental factors affecting condition and health, growth, behavior, and reproduction in important groundfishes. The primary goal is to understand, describe and explain how fish respond to changes in their habitats, their capacity to adapt, and the implications these interactions have for management. The applied goal is to contribute to the assessment of groundfish stocks and to forecast recruitment.

B. **METHODOLOGY/APPROACH:** Research is divided into A) in-depth field and experimental studies on reproduction and condition of yellowtail rockfish (Sebastes flavidus), and shortbelly rockfish (Sebastes jordani), and B) a field study of reproductive life history and larval and YOY juvenile condition as they relate to recruitment. Research activities include comprehensive examinations and analyses of all life stages - eggs, embryos, larvae, juveniles, subadults, and adults. In-depth studies emphasize reproductive output and nutritional states with ultimate connection to larval and YOY juvenile viability and recruitment. All results are combined with environmental and oceanographic conditions in order to place the fish in the context of its habitat.

C. **PRODUCTS/SERVICES:** Products of this research include written scientific reports and manuscripts, presentations at scientific meetings, conferences, lectures, and seminars. The products will contribute to understanding of the causes of fishery resource variability and efficient conservation and management. Secondary outcomes are expected to provide management an efficient means to monitor health and condition of stocks, measure reproductive output, estimate recruitment potential, and predict possible effects of management decisions and environmental conditions.

D. **CLIENTS:** Primary user of the research products are managers of the PFMC and other elements concerned with the groundfish fishery and groundfish habitat. Other users include researchers and fishery managers who need to know how fish growth, health, survival, and reproduction is affected by environmental and management decisions.

E. **CONTRACTS:** \$1.1K for histology.

PERSONNEL SCHEDULE

813

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Eldridge, Maxwelll	Supv. Fish. Bio. Res.	GS-13	100	8L1A3A82
2.	MacFarlane, R. Bruce	Fish. Bio. Res.	GS-12/8	100	"
3.	Bowers, Michael	Fish. Bio. Res.	GS-9/4	100	"
4.	Jarvis, Brian	Bio. Sci. Tech.	GS-9/9	100	"
5.	Norton, Elizabeth	Fish. Bio.	GS-7/4	100	"

SWC

813

4 OF 4

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 94						95		96	
				1	2	3	4	1	2	1	2	1	2
8L1A3A82 REDUCED	A	1	Monitor physiological conditions and determine reproductive states and fecundities of yellowtail rockfish.	D	M	J	S	X	X	X	X	X	X
8L1A3A82 REDUCED	A	2	Conduct laboratory experiments on yellowtail rockfish for gestation rates and larval condition.	D	F			X				X	
8L1A3A82	A	3	Oversee completion of contract on senescence of fishes study; plan future research activities.		M	J							
8L1A3A82 DELAYED	A	4	Conduct field surveys of shortbelly rockfish by charter vessels. Determine conditions and fecundity of shortbelly rockfish.	D	M	A	S	X	X	X	X	X	X
8L1A3A82	A	5	Conduct adult trawl survey and ichthyoplankton survey of shortbelly rockfish by NOAA research vessel (<u>David Starr Jordan</u>).		F			X				X	
"	M	6	Make scientific presentations at Western Groundfish Conference.		J								
"	A	7	Participate in and conduct YOY survey; collect and analyze specimens for health/conditions to assess viability.			M			X				X
"	M	8	Prepare contributions and edit annual rockfish recruitment report.			M			X				X
8L1A3A82 CANCELED	M	9	Make presentation at Larval Fish Conference.			J							
8L1A3A82	M	10	Complete and submit for publication manuscripts on: tissue composition in yellowtail rockfish, viviparity in yellowtail rockfish, gestation rates of yellowtail rockfish embryos.		M		J						

FMC	REF. NO.	PAGE
SWC	821	1 OF 4

TITLE	->	Fishery Management Advisories			
TASK NUMBERS ->	8L1C3A83				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	137.9				137.9
PERS. BENEFITS	28.5				28.5
TRAVEL	10.0				10.0
TRANSPORTATION	0.2				0.2
RENT, COMM., UTIL.	3.5				3.5
PRINT/REPROD.	1.7				1.7
CONTRACTS	5.7				5.7
SUPPLIES/MATERIAL	15.7				15.7
EQUIPMENT					
GRANTS					
TOTALS	203.2				203.2
FTE (FTP)	2.5				2.5
FTE (OTFTP)					

APPROVAL SIGNATURE

Richard A. Neaf

HQ CONTACT

STRATEGIC PLAN	
GOAL #	OBJ #
1	2
2	1,2,4,5
3	1,2,3
4	1,2,4,5
5	2
6	1,2,3
7	2
8	3

VESSELS		
# SEA DAYS ALLOC.		
NOAA	CHARTER	FREE

CROSS REFERENCES

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWC	821	2 OF 4

TITLE	PRIN. FAC.	FTE	\$K	UNIT LEADER	LINE ITEM NAME
Fishery Mgmt. Advisories	Tiburon, CA	2.5	203.2	A. MacCall	Info.Anal.&Dissemination

- A. PROBLEM STATEMENT/OBJECTIVE: This Task provides scientific expertise, analysis and information on a broad range of fishery subjects relevant to fisheries off the west coast of the U. S., especially off central and northern California where the Tiburon Laboratory is located. Subject areas include 1) groundfish and their fisheries, 2) fisheries other than groundfish, such as salmon, 3) fisheries and habitat in San Francisco Bay and the Gulf of the Farallones, especially with regard to effects of dredge spoil disposal, and historical disposal of radioactive waste, 4) improvement of understanding and analytic methodologies for fishery and ecosystem management.
- B. METHODOLOGY/APPROACH: This Task is multidisciplinary, including quantitative fishery and ecosystem analysis, economic analysis and ADP information management. This Task draws on and integrates information from other Tasks at the Tiburon Laboratory as well as relevant knowledge, studies and data from outside agencies. Members of this Task participate extensively on advisory committees and otherwise maintain close contact and liaison with the clients described below.
- C. PRODUCT/SERVICES: Public testimony, reviews and advice to government agencies, industry and interest groups regarding fisheries and habitat. Also, the staff publishes in peer-reviewed journals and administrative reports, and presents talks at scientific meetings.
- D. CLIENTS: Federal government agencies such as the Pacific Fishery Management Council (PFMC) and its entities, the Klamath River Fishery Council, Pacific Fishery Information Network (PacFIN), California Sea Grant, the Environmental Protection Agency, the U.S. Army Corps of Engineers, and the U.S. Navy. Other agencies include the California Resources Agency, State Lands Commission, and local agencies in the San Francisco area. Recreational and commercial fishing industries, conservation and other interest groups.

E. CONTRACTS:

PERSONNEL SCHEDULE

821

SWC

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	MacCall, Alec	Director	GM-15	50	8L1C3A83
2.	Kope, Robert	Fish. Bio. Rec.	GS-12/4	100	"
3.	Wiley, Nancy	Comp. Prog. Analyst	GS-11/9	100	"

FORM 1
RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

DATE February 18, 1994

REF. NO. PAGE

901 1 OF 7

TITLE ->	Pacific Fisheries Environmental Group			
	8L1C5B90	8L1C5B91	8L1C5B92	8L1C5B93
TASK NUMBERS ->	TASK #1	TASK #2	TASK #3	TASK #4
OBJECT CLASS				TOTAL
DIRECT LABOR	136.8	127.5	70.9	160.3
PERS. BENEFITS	28.7	26.8	14.9	33.7
TRAVEL	6.0	2.0	2.0	3.0
TRANSPORTATION	0.0	0.0	0.0	0.0
RENT, COMM, UTIL	24.0	0.0	0.0	0.0
PRINT/REPROD.	2.0	0.0	0.0	2.2
CONTRACTS	15.0	0.0	0.0	0.0
SUPPLIES/MATERIAL	11.0	2.0	2.0	2.0
EQUIPMENT	6.0	1.0	1.2	1.0
GRANTS	0.0	0.0	0.0	0.0
TOTALS	229.5	159.3	91.0	202.2
FTE (FTP)	2.6	2.5	1.0	3.0
FTE (OTFTP)	0.6	0.0	0.0	0.0

STRATEGIC PLAN	
GOAL #	OBJ #
3	1,2,3

VESSELS		
# SEA DAYS ALLOC.		
0		
NOAA	CHARTER	FREE
4		

CROSS REFERENCES
731, 304

APPROVAL SIGNATURE

HQ CONTACT

Richard A Neal

FORM 1
RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1994

February 18, 1994

REF. NO. PAGE

901 2 OF 7

TITLE --> Pacific Fisheries Environmental Group

TASK NUMBERS -->	8L1C1C94				
OBJECT CLASS	TASK #5				TOTAL
DIRECT LABOR	33.8				529.3
PERS. BENEFITS	7.1				111.2
TRAVEL	0.0				13.0
TRANSPORTATION	0.0				0.0
RENT, COMM, UTIL	0.0				24.0
PRINT/REPROD.	0.0				4.2
CONTRACTS	0.0				15.0
SUPPLIES/MATERIAL	0.0				17.0
EQUIPMENT	0.0				9.2
GRANTS	0.0				0.0
TOTALS	40.9				722.9
FTE (FTP)	0.75				9.85
FTE (OTFTP)	0.0				0.6

STRATEGIC PLAN

GOAL # OBJ #

3 1,2,3

VESSELS

SEA DAYS ALLOC.

0

NOAA CHARTER FREE

4

CROSS REFERENCES

731, 304

APPROVAL SIGNATURE

HQ CONTACT

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

PAGE

REF. NO.

FMC

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901

SWC

TITLE

PRIN. FAC.

FTE

\$K

UNIT LEADER

LINE ITEM NAME

Pacific Fisheries
Environmental Group

Monterey

10.5

\$722.9

G. Boehlert

Information Analysis
and Dissemination

- A. PROBLEM STATEMENT/OBJECTIVE: Natural variability in physical and biological systems interacts with effects of human actions in controlling the dynamics of fishery resource populations. The Pacific Fisheries Environmental Group conducts research to gain an improved understanding of causes of variability in marine ecosystems and to apply this knowledge to practical problems in marine resources.
- B. METHODOLOGY/RESEARCH: An integrated, interdisciplinary approach addresses these problems at varying time and space scales and includes i) diagnostic studies of ecological anomalies, ii) identification of causal linkages between the environment and biological variability, and iii) development of fishery modelling methodology incorporating environmental factors. In support of this research, environmental and biological time series are developed, verified, and evaluated. The research is international in scope.
- C. PRODUCT/SERVICES: In addition to scientific publications and technical reports disseminated through the scientific literature, PFEG also compiles, updates, and distributes selected environmental data products of utility to fisheries and oceanographic researchers throughout the world.
- D. CLIENTS: PFEG data products are used by government, academic, and private sector researchers in support of resource- and oceanographic-related research. Scientific manuscripts are used by other researchers, government scientists and managers, regulatory agencies, and others interested in the effects of the environment on ecosystems and marine resources.
- E. CONTRACTS: Contracts include computer services and access with the Fleet Numerical Meteorology and Oceanography Center, Monterey.

CURRENT YEAR OPERATING PLAN

PAGE

PERSONNEL SCHEDULE

FMC

REF. NO.

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901

SWC

NAME

TITLE

PAY PLAN/GRADE/STEP

% TIME

TASK #

FTP, PTP:

1. G. Boehlert
2. R. Troian
3. A. Nichols
4. R. Parrish
5. M. Yoklavich
6. J. Mason
7. R. Mendelssohn
8. P. Mercer
9. D. Husby
10. F. Schwing
11. J. Norton

Oceanographer
Admin. Assistant
Sci. Illustrator
Fishery Biologist
Fishery Biologist
Fishery Biologist
Operations Research
Computer Specialist
Oceanographer
Oceanographer
Oceanographer

GM15
7/9
7/2
GM14
11/4
9/2
GM14
11/10
GM13
GM13
12/5

1.00
1.00
0.60
1.00
1.00
0.50
1.00
0.75
1.00
1.00
1.00
1.00

8L1C5B90
8L1C5B90
8L1C5B90
8L1C5B91
8L1C5B91
8L1C5B91
8L1C5B92
8L1C1C94
8L1C5B93
8L1C5B93
8L1C5B93

OTFTP:

12. R. Luthy

Clerk

5/1

0.60

8L1C5B90

NMFS
CURRENT YEAR OPERATING PLAN

REF. NO.

FMC

PAGE

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901

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 94				95			96	
				1	2	3	4	1	2	1	2	2
8L1C5B90	A	1	Develop facilities requirements plan and seek permanent facilities for PPEG.	X	-	-	X					
"	M	2	Complete chapter on larval dispersal and survival for book, "Reef Fisheries".		M							
"	E	3	Complete NOAA Technical Memorandum on vertical distribution of ichthyoplankton around Oahu (with CYOP 731)			J						
8L1C5B91 CANCELLED	E	4	Present paper (PICES) on shift in geographical distribution patterns of epipelagic fishes in subtropical North Pacific									
8L1C5B91	E	5	Draft manuscript on conceptual albacore population model				S					
"	E	6	Complete rockfish recruitment field study collaborative with CFG in spring 1994				J					
"	E	7	Complete draft manuscript on pelagic juvenile rockfish distribution relative to physical factors.				S					
"	A	8	Assess relationship of benthic rockfish assemblages and physical habitat structure.	X	-	-	-	-	-	-	X	
"	E	9	Complete draft manuscript from rockfish assemblage/habitat study			A						
"	E	10	Draft manuscript on similarities and differences in relative abundance of rockfish species from sport fisheries at opposite ends of the Monterey Bay		F							
"	A	11	Analyze trends in length frequencies of rockfish species from Monterey Bay sport fisheries	X	-	-	-	-	-	X		

